Yahoo Group Archive: Racal6790GM

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Date span: 2002-12-24 through 2017-03-30, plus 2 undated messages

Source WARC: racal6790gm.3orrPki.warc.gz

Source item: https://archive.org/details/yahoo-groups-2017-04-28T20-52-39Z-320a00

Messages included in this PDF: 2728

Message records with no body available in the source archive: 4

Messages omitted as spam from this PDF: 3

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

1. 6790gm

Yahoo group: Racal6790GM
Date: 2002-12-24 22:49:57 UTC
From: maxhdrm2 <maxhdrm2@comcast.net>
Topic: 1 Message: 1

Welcome one and all to my news group for the sharing of Racal 6790GM repair information.

2. The Mission

Yahoo group: Racal6790GM
Date: 2002-12-25 13:16:15 UTC
From: maxhdrm2 <maxhdrm2@comcast.net>
Topic: 2 Message: 2

My mission here is to create an internet knowlege base for sharing repair tips and parts sources for the Racal 6790GM. Since aquiring my own two 6790s it became obvious that there was a total lack of information on the internet on this subject.
My hope here to to make available some information so that technially minded SWLs can surmount minor repair tasks. Now I am not an expert and I am only a novice technician at best... but having said that I have managed to repair both of my Racals to 100% functionality and to military performance specs. My success was due in large part to having a good copy of the repair manual AND the information shared by a real Racal expert, Gary E. Wingerd of Maryland. I hope to include all of the shared info here with Gary's permission.
E-bay remains the best source that I know of for spare parts subassys. Additionally Gary Wingerd has offered many components for sale. Allen Bond of Marietta Ga. has also been a big help with replacement parts. I hope to compile a list complete with E-mail addresses. and post them here
All comments welcome ....the success of this knowlege base depends on shared information.....
Maxhdrm2

3. Alignment Instructions

Yahoo group: Racal6790GM
Date: 2003-01-01 18:01:35 UTC
From: maxhdrm2 <maxhdrm2@comcast.net>
Topic: 3 Message: 3

I will post a page of alignment instructions courtesy of Gary Wingerd. Gary is a Racal specialist and offers a complete line of repair services for this line of radios. The alignment instructions do not appear in either of the manuals that I have. Thanks again Gary!

4. A-2 Mixer Board

Yahoo group: Racal6790GM
Date: 2003-02-26 00:41:59 UTC
From: maxhdrm2 <maxhdrm2@comcast.net>
Topic: 4 Message: 4

Winter time in the northeast means lots of time indoors. Great time of year for shortwave. One of my first dilemmas to solve after purchasing my second of two Racal 6790GM receivers was to repair a known bad A-2 mixer board. I am a hobby level technician so the idea of component level troubleshooting was not my first choice. New A-2s can be had for about $250....OK save that for plan B. After looking at the schematics, the circuit seemed straightforward enough for me to understand so I decided to either fix it myself or make sure no one else could.<grin>
The A-2 is the first mixer of the receiver. At the heart of the mixer is an FET bridge that is housed inside a tin box that is soldered closed. Deductive troubleshooting led me to this box. Bummer! Now what? I carefully unsoldered the leads to said box and even more carefully unsoldered the cover. After further testing I was convinced that one side of the bridge was not working. (I used an HP 8640B and a Boonton 92-b with probe with the A-2 connected to RX). Gary Wingerd put me in touch with a Allen Bond of Max Gain (see Links). Allen has the replacement FETs and sent me a matched set of four. Replacing these is not simple but can be done with care and a small soldering iron. I managed to get all four in without collateral damage. The receiver came back to life and passed the bite test without a hitch.Cool! The FETs are $39 for a set plus shipping.
Allen mentioned that the FET bridge is very sensitive to static spikes and can be wiped out at the speed of light. So his advice is use good lightning protection.
My A-2 looked like it had seen many (many) hours of use with Uncle Sam. Alittle crisp around the first amplifier stage for sure. It had many components changed by the previous owners attempts to repair it. So after some fine tuning it works just fine!

5. Remember the TV show Max Headroom ?

Yahoo group: Racal6790GM
Date: 2003-02-26 01:53:41 UTC
From: Daniel Neves
Topic: 5 Message: 5

Remember the endless debates about headroom in old magnetic media recording devices..remember the demagnetizer they used to sell at RatShack to demag playback heads on cassette decks and such..

Still have an old Nakamichi BX 150 series deck as well as a 3 head Technics"bootleg special" portable 3 head wonder with level meters, separate L, R channels and Master as well as "end eye"..a flashing LED that lets one know when you are getting too close to the end of the tape..those were the days..

In use here now is the Sony Minidisk recorder..with a "Baby Behringer" Eurorack MX602A mixer that pulls the headphone feeds off the ra6790 as well as the ra6217e, Drake R7/TR7 combo and WJ, and out they go off the main mix to the MDR.

This works great as the 'tape in' is live and comes off the soundcard and 'tape out' goes into the soundcard.

The headphones off the mixer is now capable of hearing any of the pot and tone controlled receiver inputs, one at a time, all at once or any mixture of them together. It is easy to tell which radio is pulling the hardest.

The soundcard vol is controlled off the computer if one runs the 'tape out' thru software like DSP blaster or what have you. I also like TrueTTY and CWGet and have WACARS for the WJ which is 90-300Mhz.

It is as you say very important to protect the front end of the ra6790. What has been bulletproof so far is the combo of the 30m wire feeding the ICE model 180a longwire matching unit coupled to the model 197 RF limiter/arrestor that then feeds the CEI multicoupler. Both ICE units are grounded to a copper ground rod. The receivers are all grounded and antenna decoupled from the multicoupler itself when it is switched off.

Now that a complete shack description has occured..it should be noted that a very large Hammond Isolation transformer is used before the power bar that feeds the receiver as well a separate line filter.

An interesting note is that sometimes I will experiment with preselection in front of the 6790GM. What I do is run the antenna to the ra6397a preselector which is slaved off the bandswitch knob of the 6217E. The output then runs to the multicoupler which then splits out the tuned bandwidth to all of the other receivers. This works well. Normally I do not believe it would be helpful, especially for SWL only work, an RF filter limiting MW frequencies might be all anyone would ever need one would venture to guess.

Before I bore everyone..73's

Dan7..Saskatoon..

This is my first post to the group. I hope this shack description underscores the fact that the 6790GM is a very fine receiver, and indeed is the best performing unit in this particular shack so far.

The

6. Re: [Racal6790GM] Remember the TV show Max Headroom ?

Yahoo group: Racal6790GM
Date: 2003-02-26 02:55:49 UTC
From: maxhdrm2
Topic: 5 Message: 6

Yes, I remember....I have probably outgrown that ID but it just seems to stick like superglue! Welcome! It would seem you have a well equipped shack ! I would like to correspond with you further on the subject of your antenna and tuner . Talk soon Max
----- Original Message -----
From: Daniel Neves
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, February 25, 2003 8:53 PM
Subject: [Racal6790GM] Remember the TV show Max Headroom ?

Remember the endless debates about headroom in old magnetic media recording devices..remember the demagnetizer they used to sell at RatShack to demag playback heads on cassette decks and such..

Still have an old Nakamichi BX 150 series deck as well as a 3 head Technics"bootleg special" portable 3 head wonder with level meters, separate L, R channels and Master as well as "end eye"..a flashing LED that lets one know when you are getting too close to the end of the tape..those were the days..

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7. Re: [Racal6790GM] Remember the TV show Max Headroom ?

Yahoo group: Racal6790GM
Date: 2003-02-26 02:48:29 UTC
From: Robert Langston
Topic: 5 Message: 7

m m m m max...
maxhdrm2 <maxhdrm2@...> wrote:Yes, I remember....I have probably outgrown that ID but it just seems to stick like superglue! Welcome! It would seem you have a well equipped shack ! I would like to correspond with you further on the subject of your antenna and tuner . Talk soon Max----- Original Message ----- From: Daniel Neves To: Racal6790GM@yahoogroups.com Sent: Tuesday, February 25, 2003 8:53 PMSubject: [Racal6790GM] Remember the TV show Max Headroom ?
Remember the endless debates about headroom in old magnetic media recording devices..remember the demagnetizer they used to sell at RatShack to demag playback heads on cassette decks and such.. Still have an old Nakamichi BX 150 series deck as well as a 3 head Technics"bootleg special" portable 3 head wonder with level meters, separate L, R channels and Master as well as "end eye"..a flashing LED that lets one know when you are getting too close to the end of the tape..those were the days.. In use here now is the Sony Minidisk recorder..with a "Baby Behringer" Eurorack MX602A mixer that pulls the headphone feeds off the ra6790 as well as the ra6217e, Drake R7/TR7 combo and WJ, and out they go off the main mix to the MDR. This works great as the 'tape in' is live and comes off the soundcard and 'tape out' goes into the soundcard. The headphones off the mixer is now capable of hearing any of the pot and tone controlled receiver inputs, one at a time, all at once or any mixture of them together. It is easy to tell which radio is pulling the hardest. The soundcard vol is controlled off the computer if one runs the 'tape out' thru software like DSP blaster or what have you. I also like TrueTTY and CWGet and have WACARS for the WJ which is 90-300Mhz. It is as you say very important to protect the front end of the ra6790. What has been bulletproof so far is the combo of the 30m wire feeding the ICE model 180a longwire matching unit coupled to the model 197 RF limiter/arrestor that then feeds the CEI multicoupler. Both ICE units are grounded to a copper ground rod. The receivers are all grounded and antenna decoupled from the multicoupler itself when it is switched off. Now that a complete shack description has occured..it should be noted that a very large Hammond Isolation transformer is used before the power bar that feeds the receiver as well a separate line filter. An interesting note is that sometimes I will experiment with preselection in front of the 6790GM. What I do is run the antenna to the ra6397a preselector which is slaved off the bandswitch knob of the 6217E. The output then runs to the multicoupler which then splits out the tuned bandwidth to all of the other receivers. This works well. Normally I do not believe it would be helpful, especially for SWL only work, an RF filter limiting MW frequencies might be all anyone would ever need one would venture to guess. Before I bore everyone..73's Dan7..Saskatoon.. This is my first post to the group. I hope this shack description underscores the fact that the 6790GM is a very fine receiver, and indeed is the best performing unit in this particular shack so far. The

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8. more on the A-2

Yahoo group: Racal6790GM
Date: 2003-03-01 14:32:47 UTC
From: maxhdrm2 <maxhdrm2@comcast.net>
Topic: 8 Message: 8

More thoughts on the A-2 Mixer.
Alot of what I learned about the A-2 and its relationship to the receiver's microcomputer was the result of experimentation and queries answered by Gary Wingerd as I did not have a copy of the alignment manual. My first point is that the "BITE" software interogates parts of the receiver and compares the results with acceptable performance standards that is written in the software. In the case of the A-2 the BITE is looking for bandwidth and gain at the A-2's output or A-3's input. An error code 15 could mean a few things. One sure way to get error code 15 is if the FET bridge is wiped out. (no gain). I also got error 15 when I had the first oscillator input set too low (A-7 L-5). Additionally an error code 15 showed when I had the low pass filter adjusted improperly(L-1, L-2 ,L-3, and L-4). I am sure there are more things that will set an error code 15. The ops manual has a guide to help get on the right track. Also I found the circuit descriptions very helpful in figuring how it was supposed to work . One lesson I learned was that the first mixer could be working fine and pass a ☐115db signal and still fail the bite test because of bandwidth problems. Your results may vary. Your input is welcome !
Max

9. new user 6790

Yahoo group: Racal6790GM
Date: 2003-03-03 08:10:24 UTC
From: f5qe <F5QE@AOL.COM>
Topic: 9 Message: 9

Hello all,
I am a new user 6790.... I look infos for repair, add options, 232C, rare xtal filters. " and mute " protections with trcx operation RX AUX mode with FT 1000D..... Now I testing add RF551A preselector Harris before the Racal..
from Toronto. I repair 2 units.. easy.Dont buy a "tested " because I dont now if realy "perfect ".It's long time band by band to testing it. Repair. ins't difficult with " manual ".. if the cosmetic view is good.....Sorry for my very poor language

73 jean paul F5QE.....France

10. Racal Mixers

Yahoo group: Racal6790GM
Date: 2003-03-03 13:23:53 UTC
From: frankcarcia <francis.carcia@hs.utc.com>
Topic: 10 Message: 10

Hi All,
I drive a RA6830 which is an updated 6790 in a half rack. The first mixer is a SD5000. I am in the process of hot rodding my radio and will provide comments when I compare procedures. Gary Wingerd is a great source and good guy to deal with. fc

11. Re: Racal Mixers

Yahoo group: Racal6790GM
Date: 2003-03-04 12:20:30 UTC
From: maxhdrm2 <maxhdrm2@comcast.net>
Topic: 10 Message: 11

--- In Racal6790GM@yahoogroups.com, "frankcarcia
<francis.carcia@h...>" <francis.carcia@h...> wrote:
> Hi All,
> I drive a RA6830 which is an updated 6790 in a half rack. The first
> mixer is a SD5000. I am in the process of hot rodding my radio and
> will provide comments when I compare procedures. Gary Wingerd is a
> great source and good guy to deal with. fc

Dear Racal group,
I tried to purchase an SD5000 chip for some experimenting and could not find a supplier. Vishay Siliconix is the manufacture and qouted a price of $50 and I had to buy minimum 75 chips. If anyone knows where to get this chip let the group know. The updated mixer can be used in the 6790/GM and other racal variants. The data sheet for the SD5000 is on file in the files section of the group.
Thanks Max

ps Special thanks to Gary Wingerd for making alot of valuable information available to us.

12. RE: [Racal6790GM] Re: Racal Mixers

Yahoo group: Racal6790GM
Date: 2003-03-04 13:48:55 UTC
From: Carcia, Frank A. HS
Topic: 10 Message: 12

I have found them on web searches for part. Check rochester.com

-----Original Message-----
From: maxhdrm2 <maxhdrm2@...> [mailto:maxhdrm2@...]
Sent: Tuesday, March 04, 2003 7:21 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Racal Mixers

--- In Racal6790GM@yahoogroups.com, "frankcarcia
<francis.carcia@h...>" <francis.carcia@h...> wrote:
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13. RE: [Racal6790GM] Re: Racal Mixers

Yahoo group: Racal6790GM
Date: 2003-03-04 15:29:44 UTC
From: Carcia, Frank A. HS
Topic: 10 Message: 13

http://www.usbid.com/search/AddPartNoLogin_action.cfm?firstSearch=10
<http://www.usbid.com/search/AddPartNoLogin_action.cfm?firstSearch=10&Desire
dpartnumber=sd5000+mixer> &Desiredpartnumber=sd5000+mixer

Try this

-----Original Message-----
From: maxhdrm2 <maxhdrm2@...> [mailto:maxhdrm2@...]
Sent: Tuesday, March 04, 2003 7:21 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Racal Mixers

--- In Racal6790GM@yahoogroups.com, "frankcarcia
<francis.carcia@h...>" <francis.carcia@h...> wrote:
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14. power supply

Yahoo group: Racal6790GM
Date: 2003-03-05 12:43:00 UTC
From: maxhdrm2
Topic: 14 Message: 14

OK Racal Aficionados
I had a repair experience recently with the power supply section A-10 of a Racal 6790 GM that may help you some day. The power supply section is conventional in design and incorporates the usual transformer, bridge rectifier, regulators and filter caps. There are four regulators and two unregulated outputs for six total outputs. The schematic is simple enough for even a novice like me. The symptom was that there was no output on the +20vdc regulator....Ok no problem, order and replace the regulator, problem solved. Well the 20 vdc regulator is not exactly a Radio Shack item. I managed to find a supplier online somewhere that had it but I decided to wait a few days, so I set the project aside and went on to other things. Afew days later I took another look at the schematic and something kept nagging at my sub conscience......why did I have the feeling I had missed something.? What if that little 6.8 MFD tantalum at the output of the +20VDC (C-4) was bad? If it shorted it would sure drag that
+20 into the dirt. Fluke meter shows a short across that bugger in circuit.......bingo! Now did the regulator survive? I lifted a leg of that cap and the +20 came to life...Cool!
The moral of this story is 20 year old tantalums can be trouble. The 6790/GM is full of them. They can be easily checked in circuit alot of the time. And you may even find the one you need at your local Radio Shack.Your results may vary.
Max

15. Re: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-05 14:37:44 UTC
From: gandalfg8@aol.com
Topic: 14 Message: 15

Hi Max
You've identified what seems to be one of the major causes of failure in the 6790.
I've not had a problem but know of some users who've suffered several, one after the other, on different boards.
The 1792 seems to suffer also and I suspect that's why mine died suddenly recently...
at least I hope that's all it turns out to be:-)
regards
Nigel Clarke
G8PZR

16. RE: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-05 14:41:00 UTC
From: Carcia, Frank A. HS
Topic: 14 Message: 16

RA6830 has the same cap problem. fc

-----Original Message-----
From: gandalfg8@... [mailto:gandalfg8@...]
Sent: Wednesday, March 05, 2003 9:38 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] power supply

Hi Max
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6790.
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The 1792 seems to suffer also and I suspect that's why mine died suddenly
recently...
at least I hope that's all it turns out to be:-)
regards
Nigel Clarke
G8PZR

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l/S=:HM/A=1457554/rand=467121920>

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17. Re: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-05 15:44:19 UTC
From: Barry Hauser
Topic: 14 Message: 17

Max wrote:
>snipped<
> What if that little 6.8 MFD tantalum at the
> output of the +20VDC (C-4) was bad? If it shorted it would sure drag
> that +20 into the dirt. Fluke meter shows a short across that bugger in
> circuit.......bingo! Now did the regulator survive? I lifted a leg of
> that cap and the +20 came to life...Cool!
> The moral of this story is 20 year old tantalums can be trouble. The
> 6790/GM is full of them. They can be easily checked in circuit alot
> of the time. And you may even find the one you need at your local
> Radio Shack.Your results may vary.
> Max

Hi Max:

A lot of 70's and 80's gear was loaded with those little dipped tantalums. The funny thing is that Sprague Black Beauties -- actual product line name -- were all the rage and extensively deployed in the 50's. Not too pretty 40-50 years later. The R-390A's have a cylindrical, acid filled 8 mfd. tantulum in their audio decks that invariably bled all over the circuit board.

I have a Tek 465 scope that blows fuses. It has a slew of dipped tantalums. Someone recommended shorting the fuseholder and allowing the offending tantalum to explode, thereby involuntarily disclosing its identity. I don't know if I'm ready for that diagnostic method just yet.

Of course, we have to keep in mind that most of these components lasted through the product life cycles of the equipment which is all now technically obsolete, no longer supported, etc.

Barry
BTW -- Did you see Matt Frewer in that mini-series on the Sci-Fi channel? He was the original Max Headroom. Well, sort of -- his image was cloned for animation.

18. Re: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-05 19:39:18 UTC
From: refmon
Topic: 14 Message: 18

Hi,

A short expansion on the tantalum issue: I have, over the last year, been restoring a Racal 6790/GM, WJ 8615D/S1, WJ 8618B-12, and two WJ 8940's, each of which was sold as inoperative in at least some functions. Virtually every power-related issue, whether it be apparant failure or intermittent fluctuations, has traced back to faulty tantalum capacitors. My experience has been that a large number of the "inoperative" equipment on ebay and elsewhere suffers from simple capacitor failures (electrolytics also, but not in such great numbers) compounded by fiddlers and tweakers who lacked the knowledge to solve the original problem. In every case thus far, the mid 70's to early 90's regulators have been smart enough to shut down as opposed to blow up when faced with a short. It is always a thrill when the $1,000 receiver comes alive with the replacement of a 50 cent cap. It's drudgery, though, to figure out the permutations of all the erroneous fiddling that has been done in an attempt to "fix" the problem.

By the way, the "let it explode" method of cap finding can be fairly dangerous---the bad cap may be stronger than the circuit traces for starters, and it may not be the only problem in the whole chassis...

regards

John Collins

----- Original Message -----
From: "Barry Hauser" <barry@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, March 05, 2003 07:44 AM
Subject: Re: [Racal6790GM] power supply

> Max wrote:
> >snipped<
> > What if that little 6.8 MFD tantalum at the
> > output of the +20VDC (C-4) was bad? If it shorted it would sure drag
> > that +20 into the dirt. Fluke meter shows a short across that bugger in
> > circuit.......bingo! Now did the regulator survive? I lifted a leg of
> > that cap and the +20 came to life...Cool!
> > The moral of this story is 20 year old tantalums can be trouble. The
> > 6790/GM is full of them. They can be easily checked in circuit alot
> > of the time. And you may even find the one you need at your local
> > Radio Shack.Your results may vary.
> > Max
>
> Hi Max:

>
> A lot of 70's and 80's gear was loaded with those little dipped tantalums.
> The funny thing is that Sprague Black Beauties -- actual product line
> name -- were all the rage and extensively deployed in the 50's. Not too
> pretty 40-50 years later. The R-390A's have a cylindrical, acid filled 8
> mfd. tantulum in their audio decks that invariably bled all over the
circuit
> board.
>
> I have a Tek 465 scope that blows fuses. It has a slew of dipped
tantalums.
> Someone recommended shorting the fuseholder and allowing the offending
> tantalum to explode, thereby involuntarily disclosing its identity. I
don't
> know if I'm ready for that diagnostic method just yet.
>
> Of course, we have to keep in mind that most of these components lasted
> through the product life cycles of the equipment which is all now
> technically obsolete, no longer supported, etc.
>
> Barry
> BTW -- Did you see Matt Frewer in that mini-series on the Sci-Fi channel?
> He was the original Max Headroom. Well, sort of -- his image was cloned
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> animation.
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19. Re: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-05 20:50:44 UTC
From: gandalfg8@aol.com
Topic: 14 Message: 19

Hi All
As a back up to John's comments on cap exploding and pcb traces...
I have one 6790 in a very sorry state, including a burned out core in one of the flat strip cables.
It's one of those rainy day projects that is just sitting for now, and I can't say it was tantalum induced, but would certainly agree that fuses are there for a purpose.
If they fail and you bypass them you're inviting all sorts of disasters.
Whilst on the subject of 6790 failure modes...
don't forget to check and replace the NI-Cad on the CPU board from time to time.
That's the other big source of problems on both the 6790 and 1792, and much other equipment from the same period.
These were never intended to be "fit and forget" but that's often the way it turned out.
The amount of damage that an old leaky battery can cause needs to be seen to be believed at times.
My "sorry state" 6790 has significant battery corrosion throughout the CPU board that has spread to the serial card beyond.
That's likely to be much more of a problem to fix than the burned out core:-(
regards
Nigel
G8PZR

20. RE: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-05 21:13:33 UTC
From: George Georgevits
Topic: 14 Message: 20

Hi Everyone,

I have had the same experience as Nigel. Some time ago I purchased two 6790's from Toronto surplus, one working and a second non-working as a spare. The working unit was fine up until about a month or so ago when it suddenly died. I haven't got around to finding out why as yet. The second unit had the bleeding battery problem, and I tried to clean up the mess, but the board was in very bad shape. I even went as far as copying the PCB design for the serial card and getting it made. Unfortunately, I have been too busy to follow it through since then, so the new board is in the waiting pile (along with fixing the good unit)! If anyone wants the PCB file, I would be happy to pass it on - it is in Protel format, but Protel can export to DXF.

By the way, the non-working unit came without filters, of course, but they are available from Toronto Surplus.

Regards,
George Georgevits

VK2KGG

-----Original Message-----
From: gandalfg8@... [mailto:gandalfg8@...]
Sent: Thursday, 6 March 2003 7:51 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] power supply

Hi All
As a back up to John's comments on cap exploding and pcb traces...
I have one 6790 in a very sorry state, including a burned out core in one of the flat strip cables.
It's one of those rainy day projects that is just sitting for now, and I can't say it was tantalum induced, but would certainly agree that fuses are there for a purpose.
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21. Re: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-06 00:35:18 UTC
From: gewingerd
Topic: 14 Message: 21

The main reason for the high failure is due to the change by the cap manufactures, they now derate most of the caps at 50%, this is a 20 volt cap is only good for 10 volts, the cap in the RA6790/GM are mostly 25 Volt caps on 15 Volts lines.

Thanks,
Gary E. Wingerd
----- Original Message -----
From: refmon
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, March 05, 2003 11:39 AM
Subject: Re: [Racal6790GM] power supply

Hi,

A short expansion on the tantalum issue: I have, over the last year, been restoring a Racal 6790/GM, WJ 8615D/S1, WJ 8618B-12, and two WJ 8940's, each of which was sold as inoperative in at least some functions. Virtually every power-related issue, whether it be apparant failure or intermittent fluctuations, has traced back to faulty tantalum capacitors. My experience has been that a large number of the "inoperative" equipment on ebay and elsewhere suffers from simple capacitor failures (electrolytics also, but not in such great numbers) compounded by fiddlers and tweakers who lacked the knowledge to solve the original problem. In every case thus far, the mid 70's to early 90's regulators have been smart enough to shut down as opposed to blow up when faced with a short. It is always a thrill when the $1,000 receiver comes alive with the replacement of a 50 cent cap. It's drudgery, though, to figure out the permutations of all the erroneous fiddling that has been done in an attempt to "fix" the problem.

By the way, the "let it explode" method of cap finding can be fairly dangerous---the bad cap may be stronger than the circuit traces for starters, and it may not be the only problem in the whole chassis...

regards

John Collins

----- Original Message -----
From: "Barry Hauser" <barry@...m>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, March 05, 2003 07:44 AM
Subject: Re: [Racal6790GM] power supply

> Max wrote:
> >snipped<
> > What if that little 6.8 MFD tantalum at the

> > output of the +20VDC (C-4) was bad? If it shorted it would sure drag
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> > Max
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22. Re: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-05 23:18:14 UTC
From: gandalfg8@aol.com
Topic: 14 Message: 22

Isn't it amazing how one thing so often leads on to another:-)
George comments on buying a 6790 without filters.
A lot of those sold in the UK, including my "sorry" one, are the same.
One tip I was given, perhaps more relevant to the UK where 1792 parts are more common, is to drill out the PCB sockets so that 1792 screw fitting filters could be used.
My first reaction was that I didn't want to make such a drastic change but now find that many 6790s here have been modified that way.
As I've got a spare set of 1792 filters, and 6790 ones are relatively expensive, that's the way my non worker will go if I can fix the other problems.
I'm even thinking of trying that with my good 6790....
but still waiting for the courage to get the drill out:-)
regards
Nigel
G8PZR

23. Re: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-05 23:26:40 UTC
From: mw1duj@aol.com
Topic: 14 Message: 23

hi,
Thanks for the manuals, will write off list, you dont need a drill to do the job, if you melt the solder from around the sockets, or use solderwick, they drop out, and the 1792 filters drop straight in, and, if all goes pear shaped, you can solder the sockets back in, good eh! Dave

24. Re: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-06 02:30:31 UTC
From: gary wingerd
Topic: 14 Message: 24

Nigel,

The spacing is the same, all you have to do is heat up the pin and pull it out, I did to over 1000 receivers as an up grade for the Air Force when I worked at RACAL.

Thanks,
Gary

PS: Tell me what the receiver is doing and I will try an tell you what to look for. I have a RACAL Repair manual for the receiver for $55.00 plus shipping, it contains all the test point information and I have new RA6790/GM manuals that have all the parts lists, schematics and layouts for all the boards. I also carry spare parts for the receivers.
----- Original Message -----
From: gandalfg8@...
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, March 05, 2003 3:18 PM
Subject: Re: [Racal6790GM] power supply

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George comments on buying a 6790 without filters.
A lot of those sold in the UK, including my "sorry" one, are the same.
One tip I was given, perhaps more relevant to the UK where 1792 parts are more common, is to drill out the PCB sockets so that 1792 screw fitting filters could be used.
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25. Re: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-06 09:52:08 UTC
From: gandalfg8@aol.com
Topic: 14 Message: 25

Thanks Dave and Gary for the info on desoldering the pins.
I'd assumed the holes still wouldn't be big enough but very pleased to hear otherwise...
that's much less painful:-)

Thanks also Gary on the manuals and offer of advice. I've got a manual so that's not a problem but I may be looking for some advice and spares eventually.
One set is working fine, I just want to add some extra filters to that one.
I can't tell you what the other is doing, or not doing, as I haven't found the courage to put power on it yet:-)
Before powering it up I would want to spend quite a bit of time cleaning and checking the CPU board and trying to find the cause of the cooked cable. I suspect the fault is on the 455KHz IF board, obviously there's a short somewhere so perhaps a tantalum again.
For now I'm quite happy just to keep it as a possible source of spares for the good one but it would be nice if I could get it going at some time in the future.
That one's definitely a long term project though and will have to wait it's turn.
regards
Nigel

26. Re: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-06 11:08:06 UTC
From: gandalfg8@aol.com
Topic: 14 Message: 26

A further thought on filters and A4 IF boards...
the boards from the 1792 and 6790 look very similar, if not identical.
Has anyone tried using a 1792 A4 board in a 6790?
regards
Nigel

27. RE: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-06 15:02:08 UTC
From: Carcia, Frank A. HS
Topic: 14 Message: 27

You need to contact Gary Wingerd. I bet he can help you fix both units.
fc

-----Original Message-----
From: George Georgevits [mailto:georgg@...]
Sent: Wednesday, March 05, 2003 4:14 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] power supply

Hi Everyone,

I have had the same experience as Nigel. Some time ago I purchased two 6790's from Toronto surplus, one working and a second non-working as a spare. The working unit was fine up until about a month or so ago when it suddenly died. I haven't got around to finding out why as yet. The second unit had the bleeding battery problem, and I tried to clean up the mess, but the board was in very bad shape. I even went as far as copying the PCB design for the serial card and getting it made. Unfortunately, I have been too busy to follow it through since then, so the new board is in the waiting pile (along with fixing the good unit)! If anyone wants the PCB file, I would be happy to pass it on - it is in Protel format, but Protel can export to DXF.

By the way, the non-working unit came without filters, of course, but they are available from Toronto Surplus.

Regards,
George Georgevits

VK2KGG

-----Original Message-----
From: gandalfg8@... [mailto:gandalfg8@...]
Sent: Thursday, 6 March 2003 7:51 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] power supply

Hi All
As a back up to John's comments on cap exploding and pcb traces...
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It's one of those rainy day projects that is just sitting for now, and I can't say it was tantalum induced, but would certainly agree that fuses are there for a purpose.
If they fail and you bypass them you're inviting all sorts of disasters.
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don't forget to check and replace the NI-Cad on the CPU board from time to

time.
That's the other big source of problems on both the 6790 and 1792, and much other equipment from the same period.
These were never intended to be "fit and forget" but that's often the way it turned out.
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28. RE: [Racal6790GM] power supply

Yahoo group: Racal6790GM
Date: 2003-03-07 20:50:51 UTC
From: Carcia, Frank A. HS
Topic: 14 Message: 28

Hi All,
We just started using PC Express for quick turn PC boards. The quality
is very
good and the cost is more than fair. They provide the software for the
design. You
email the file with a credit card number and they have them in the mail
back to you
in 3 days. Check out their web site for nice proto or copy boards.
fc

-----Original Message-----
From: George Georgevits [mailto:georgg@...]
Sent: Wednesday, March 05, 2003 4:14 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] power supply

Hi Everyone,

I have had the same experience as Nigel. Some time ago I purchased two
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pile (along with fixing the good unit)! If anyone wants the PCB file, I
would be happy to pass it on - it is in Protel format, but Protel can export
to DXF.

By the way, the non-working unit came without filters, of course, but they
are available from Toronto Surplus.

Regards,
George Georgevits

VK2KGG

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From: gandalfg8@... [mailto:gandalfg8@...]
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Subject: Re: [Racal6790GM] power supply

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29. Xtal filter self BW test

Yahoo group: Racal6790GM
Date: 2003-03-09 18:46:40 UTC
From: F5QE@AOL.COM
Topic: 29 Message: 29

Hello,
My 1.2khz xtal make BW is 1.5 khz on the screen
Now I remove and add a 1.00 khz--- I run the self test and the screen
indicate 2.2 khz

the really BW is 1 khz (spectro audio sound blaster)

Why BW is up to 2.2 khz with a new filter narrow ??.

merci 73 JEAN PAUL F5QE

30. Display problem (solved)

Yahoo group: Racal6790GM
Date: 2003-03-10 02:34:52 UTC
From: maxhdrm2
Topic: 30 Message: 30

Greetings from your Moderator!
Welcome all and new members of the group. Last count we are up to forty two members. I am glad to have the participation and hopefully, collectively we can gain a better understanding of this fine piece of radio gear.
The components that make a 6790/GM are numerous. Logically that means that the potential for problems is equal to the component count, maybe more. Anyway I will share another repair experience with you with the hope it may help you someday . If you are like me, you want your expensive top of the line ex military, ex commercial radio gear to work as it did when it was new. Anything less is just no fun.
When I got my first 6790/GM I noticed that the RF, AF meter display had one of its twelve segments on constantly. This was a minor defect and did not effect the function of the receiver but still after pouring out my hard-earned cash I wanted my Racal to be 100%. So I opened the manual and studied the schematic for the A-9 display board. I surmised that the display could be bad but then I found a page in the manual that shows the waveforms that drive the display. The manual (page4-46) shows a perfectly symmetrical square wave form to the back plane of the display and the identical wave form to drive each annunciator (LCD segment) The difference is that when a display function is on the two wave forms are 180 degrees out of phase, and versa visa (in phase) when an annunciator is off . I broke out my two-channel oscilloscope and probes to see if the engineers at Racal knew what they were talking about. I probed the back plane and, well..... my scope looked just like the picture in the manual. Wow, those engineers had it right! Now to find the offending segment's signal. (Pin 23 on the display) Careful, don't want to cause more problems. Turns out the signal to the offending segment was pretty ugly (non-symmetrical) caused by a bad display driver chip U-21(CD4054BD 4 line display driver). Changing the chip was not too complicated but did require the front panel to be disassembled and the LCD to be removed The usual desoldering techniques were employed and the chip was successfully changed. Wow my household smoke detector didn't go off this time!
Anyway I reassembled and turned on....no more hanging display segment. Back to 100% function.
Hope this helps,
Max

31. Re: [Racal6790GM] Display problem (solved)

Yahoo group: Racal6790GM
Date: 2003-03-10 06:15:31 UTC
From: Barry Hauser
Topic: 30 Message: 31

Hi Max & Group:

I had the reverse problem on one of my 6790GM's. One of the segments was out all of the time. I didn't approach it as scientifically, though. I dropped the panel, reseated all the connectors, etc. No help. I had to check or reset some jumpers on the remote interface board. This involved moving the processor board. In the process, both got disconnected and reseated. "Wa-lah" segment worked. I didn't get around to tracing the logic diagrams to learn why those might be involved.

Here's another one on another 6790GM: It won't go into LSB from the front panel -- the LCD indicator doesn't light and it doesn't go into that mode. However, it will operate, LCD included, when switched in via remote control. I haven't fixed that one as yet. Any predictions? Could be the mode keypad, connector or driver thereto?

Barry

----- Original Message -----
From: "maxhdrm2" <maxhdrm2@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Sunday, March 09, 2003 9:34 PM
Subject: [Racal6790GM] Display problem (solved)

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> smoke detector didn't go off this time!
> Anyway I reassembled and turned on....no more hanging display
> segment. Back to 100% function.
> Hope this helps,
> Max
>
>
>
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32. Re: [Racal6790GM] Display problem (solved)

Yahoo group: Racal6790GM
Date: 2003-03-10 14:22:23 UTC
From: maxhdrm2
Topic: 30 Message: 32

Barry,
Please by all means post your solution to the LSB trouble...I like happy endings, We need more of them!
thanks Max
----- Original Message -----
From: "Barry Hauser" <barry@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Monday, March 10, 2003 1:15 AM
Subject: Re: [Racal6790GM] Display problem (solved)

> Hi Max & Group:
>
> I had the reverse problem on one of my 6790GM's. One of the segments was
> out all of the time. I didn't approach it as scientifically, though. I
> dropped the panel, reseated all the connectors, etc. No help. I had to
> check or reset some jumpers on the remote interface board. This involved
> moving the processor board. In the process, both got disconnected and
> reseated. "Wa-lah" segment worked. I didn't get around to tracing the
> logic diagrams to learn why those might be involved.
>
> Here's another one on another 6790GM: It won't go into LSB from the front
> panel -- the LCD indicator doesn't light and it doesn't go into that mode.
> However, it will operate, LCD included, when switched in via remote control.
> I haven't fixed that one as yet. Any predictions? Could be the mode
> keypad, connector or driver thereto?
>
> Barry
>
>
>
>
>
> ----- Original Message -----
> From: "maxhdrm2" <maxhdrm2@...>
> To: <Racal6790GM@yahoogroups.com>
> Sent: Sunday, March 09, 2003 9:34 PM
> Subject: [Racal6790GM] Display problem (solved)
>
>
> > Greetings from your Moderator!
> > Welcome all and new members of the group. Last count we are up to
> > forty two members. I am glad to have the participation and hopefully,
> > collectively we can gain a better understanding of this fine piece of
> > radio gear.

> > The components that make a 6790/GM are numerous. Logically that
> > means that the potential for problems is equal to the component
> > count, maybe more. Anyway I will share another repair experience with
> > you with the hope it may help you someday . If you are like me, you
> > want your expensive top of the line ex military, ex commercial radio
> > gear to work as it did when it was new. Anything less is just no fun.
> > When I got my first 6790/GM I noticed that the RF, AF meter display
> > had one of its twelve segments on constantly. This was a minor defect
> > and did not effect the function of the receiver but still after
> > pouring out my hard-earned cash I wanted my Racal to be 100%. So I
> > opened the manual and studied the schematic for the A-9 display
> > board. I surmised that the display could be bad but then I found a
> > page in the manual that shows the waveforms that drive the display.
> > The manual (page4-46) shows a perfectly symmetrical square wave form
> > to the back plane of the display and the identical wave form to drive
> > each annunciator (LCD segment) The difference is that when a display
> > function is on the two wave forms are 180 degrees out of phase, and
> > versa visa (in phase) when an annunciator is off . I broke out my two-
> > channel oscilloscope and probes to see if the engineers at Racal knew
> > what they were talking about. I probed the back plane and,
> > well..... my scope looked just like the picture in the manual. Wow,
> > those engineers had it right! Now to find the offending segment's
> > signal. (Pin 23 on the display) Careful, don't want to cause more
> > problems. Turns out the signal to the offending segment was pretty
> > ugly (non-symmetrical) caused by a bad display driver chip U-21(
> > CD4054BD 4 line display driver). Changing the chip was not too
> > complicated but did require the front panel to be disassembled and
> > the LCD to be removed The usual desoldering techniques were
> > employed and the chip was successfully changed. Wow my household
> > smoke detector didn't go off this time!
> > Anyway I reassembled and turned on....no more hanging display
> > segment. Back to 100% function.
> > Hope this helps,
> > Max
> >
> >
> >
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33. New 6790 User

Yahoo group: Racal6790GM
Date: 2003-03-12 05:29:11 UTC
From: Karl Maftoum
Topic: 33 Message: 33

Hi All,

I'm new to this list, and new to the 6790's. This is probably a very popular request, but where is the best source to purchase a manual (in Australia if possible!), and secondly does anyone know the pinout for the round connector-style RS232 (I assume that's what it is, the number is A6A1W1J1)?

Regards,
Karl

34. Re: [Racal6790GM] New 6790 User

Yahoo group: Racal6790GM
Date: 2003-03-12 11:23:14 UTC
From: maxhdrm2
Topic: 33 Message: 34

Karl,
Welcome, We are a new goup. But you are in the right place. Gary Wingerd is the guy here in the states to contact for a manual. Gary's E-address is in the links section.
Max
----- Original Message -----
From: "Karl Maftoum" <karl.maftoum@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, March 12, 2003 12:29 AM
Subject: [Racal6790GM] New 6790 User

> Hi All,
>
> I'm new to this list, and new to the 6790's. This is probably a very
> popular request, but where is the best source to purchase a manual (in
> Australia if possible!), and secondly does anyone know the pinout
> for the round connector-style RS232 (I assume that's what it is, the
> number is A6A1W1J1)?
>
> Regards,
> Karl
>
>
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>

35. Re: [Racal6790GM] New 6790 User

Yahoo group: Racal6790GM
Date: 2003-03-12 15:32:17 UTC
From: gewingerd
Topic: 33 Message: 35

Karl,

I have new manual for the receiver and here is a link for the info, I also carry the connectors;http://vradio.home.att.net/Racal_6790.htm

Thanks,
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD. 21733
USA
----- Original Message -----
From: Karl Maftoum
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, March 11, 2003 9:29 PM
Subject: [Racal6790GM] New 6790 User

Hi All,

I'm new to this list, and new to the 6790's. This is probably a very popular request, but where is the best source to purchase a manual (in Australia if possible!), and secondly does anyone know the pinout for the round connector-style RS232 (I assume that's what it is, the number is A6A1W1J1)?

Regards,
Karl

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36. RA6790GM questions

Yahoo group: Racal6790GM
Date: 2003-03-14 15:56:41 UTC
From: pabigelow
Topic: 36 Message: 36

Hello,

First time posting!

What the general impression concerning how well the RA6790
performs in these three areas (reference points provided):

1) VFO "plops" or "chuffs" while tuning. Does the tuning
sound smooth as if tuning an analog VFO? My scale for
receivers:
10 - R-390a (no plops)
9 - AOR AR7030 (best synethesized - no plops except for front
end filter switch)
9 - JRC NRD-505 (analog VFO no plops except at 1.6Mhz for
BCB desensitize)
5 - JRC NRD-525 (plops at 500kc points)
1 - Sangean ATS-909 (muting with every tuned 1kc step)

2) Internally generated noise/birdies.
10 - JRC NRD-505 / R-390a (virtually none)
7 - AOR AR7030 (a few, mostly low level)
5 - JRC NRD-525 (hundreds of low level birdies)

3) Display noise.
10 - JRC NRD-505 / R390a (what noise?)
7 - AOR AR7030 (not too bad, need to keep antenna far away)
5 - JRC NRD-525 (Display noise leaks into the audio)

Best regards,

Paul Bigelow

37. RE: [Racal6790GM] RA6790GM questions

Yahoo group: Racal6790GM
Date: 2003-03-14 16:19:12 UTC
From: Carcia, Frank A. HS
Topic: 36 Message: 37

Hi,
I don't know what the 6790 does but the newer 6830
with the analog power supply has the least number of birds and they are way
down. Gary Wingred told me the bird spec was birds per MHz. Early front
panels without the large caps across the displays
did make an interesting sound when it was very quiet or the antenna
connected. fc

-----Original Message-----
From: pabigelow [mailto:pbigelow@...]
Sent: Friday, March 14, 2003 10:57 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] RA6790GM questions

Hello,

First time posting!

What the general impression concerning how well the RA6790
performs in these three areas (reference points provided):

1) VFO "plops" or "chuffs" while tuning. Does the tuning
sound smooth as if tuning an analog VFO? My scale for
receivers:
10 - R-390a (no plops)
9 - AOR AR7030 (best synethesized - no plops except for front
end filter switch)
9 - JRC NRD-505 (analog VFO no plops except at 1.6Mhz for
BCB desensitize)
5 - JRC NRD-525 (plops at 500kc points)
1 - Sangean ATS-909 (muting with every tuned 1kc step)

2) Internally generated noise/birdies.
10 - JRC NRD-505 / R-390a (virtually none)
7 - AOR AR7030 (a few, mostly low level)
5 - JRC NRD-525 (hundreds of low level birdies)

3) Display noise.
10 - JRC NRD-505 / R390a (what noise?)
7 - AOR AR7030 (not too bad, need to keep antenna far away)
5 - JRC NRD-525 (Display noise leaks into the audio)

Best regards,

Paul Bigelow

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<http://us.adserver.yahoo.com/l?M=245454.2994396.4323964.2848452/D=egroupmail/S=:HM/A=1457554/rand=851800828>

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38. Heads up on spares

Yahoo group: Racal6790GM
Date: 2003-03-23 21:09:43 UTC
From: maxhdrm2
Topic: 38 Message: 38

Attention Racal operators,
There are Racal spare boards offered on B-bay. Bid prices are still low. ($25-$50). I saw an A-2, A-7, A-8. This is a great source of spares for your 6790/GM at good prices.
Max

39. RE: [Racal6790GM] Heads up on spares

Yahoo group: Racal6790GM
Date: 2003-03-23 21:50:19 UTC
From: Matt Parkinson
Topic: 38 Message: 39

What is the item numbers I have been looking.
Matt
-----Original Message-----
From: maxhdrm2 [mailto:maxhdrm2@...]
Sent: Sunday, March 23, 2003 1:10 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Heads up on spares

Attention Racal operators,
There are Racal spare boards offered on B-bay. Bid prices are still
low. ($25-$50). I saw an A-2, A-7, A-8. This is a great source of
spares for your 6790/GM at good prices.
Max

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40. Re: [Racal6790GM] Heads up on spares

Yahoo group: Racal6790GM
Date: 2003-03-24 00:00:50 UTC
From: maxhdrm2
Topic: 38 Message: 40

Hi Matt,
See links below.
Max

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3014738422&category=15051
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3014738894&category=15051
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3014739099&category=15051
----- Original Message -----
From: Matt Parkinson
To: Racal6790GM@yahoogroups.com
Sent: Sunday, March 23, 2003 4:50 PM
Subject: RE: [Racal6790GM] Heads up on spares

What is the item numbers I have been looking.
Matt
-----Original Message-----
From: maxhdrm2 [mailto:maxhdrm2@...]
Sent: Sunday, March 23, 2003 1:10 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Heads up on spares

Attention Racal operators,
There are Racal spare boards offered on B-bay. Bid prices are still
low. ($25-$50). I saw an A-2, A-7, A-8. This is a great source of
spares for your 6790/GM at good prices.
Max

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41. RE: [Racal6790GM] Heads up on spares

Yahoo group: Racal6790GM
Date: 2003-03-24 00:34:57 UTC
From: Matt Parkinson
Topic: 38 Message: 41

Thanks for the reply I found them.
I will be watching and maybe bidding if things don't get out of hand if you know what I mean.
Matt
-----Original Message-----
From: maxhdrm2 [mailto:maxhdrm2@...]
Sent: Sunday, March 23, 2003 4:01 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Heads up on spares

Hi Matt,
See links below.
Max

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3014738422&category=15051

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3014738894&category=15051

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3014739099&category=15051
----- Original Message -----
From: Matt Parkinson
To: Racal6790GM@yahoogroups.com
Sent: Sunday, March 23, 2003 4:50 PM
Subject: RE: [Racal6790GM] Heads up on spares

What is the item numbers I have been looking.
Matt
-----Original Message-----
From: maxhdrm2 [mailto:maxhdrm2@...]
Sent: Sunday, March 23, 2003 1:10 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Heads up on spares

Attention Racal operators,
There are Racal spare boards offered on B-bay. Bid prices are still low. ($25-$50). I saw an A-2, A-7, A-8. This is a great source of spares for your 6790/GM at good prices.
Max

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42. Obtaining an RA6790GM

Yahoo group: Racal6790GM
Date: 2003-03-25 23:06:04 UTC
From: pabigelow
Topic: 42 Message: 42

Hello,

Is there a good source for obtaining a nice looking, working RA6790GM?

Best regards,

Paul Bigelow

43. Re: [Racal6790GM] Obtaining an RA6790GM

Yahoo group: Racal6790GM
Date: 2003-03-26 00:28:26 UTC
From: maxhdrm2
Topic: 42 Message: 43

Hi Paul,
Good choice! I am told that Racal made some 14,000 6790/GMs. E-bay has them all the time. Most are in great shape. I have seen prices range between $500 to $1000. Make sure you get one that passes the internal Bite test. Also watch for corrosion from leaky batteries on the processer board. If you are into computer control look for one with the A-6 computer interface board. The 6790 interfaces quite easily with your computer. There is great software available at no charge from Al Tipsword.
I am still new to this breed of equipment but I have not regretted getting two Racals. The later models have green LED illumination, the older version has incandesent lighting. I have one of each. Both work great.
Talk soon, Max

----- Original Message -----
From: "pabigelow" <pbigelow@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Tuesday, March 25, 2003 6:06 PM
Subject: [Racal6790GM] Obtaining an RA6790GM

> Hello,
>
> Is there a good source for obtaining a nice looking, working RA6790GM?
>
> Best regards,
>
> Paul Bigelow
>
>
>
> To unsubscribe from this group, send an email to:
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44. RE: [Racal6790GM] Obtaining an RA6790GM

Yahoo group: Racal6790GM
Date: 2003-03-26 12:56:11 UTC
From: Carcia, Frank A. HS
Topic: 42 Message: 44

Gary Wingerd is the best source for the RA6790 gewingerd@...
<mailto:gewingerd@...> 301 582 2424

-----Original Message-----
From: maxhdrm2 [mailto:maxhdrm2@...]
Sent: Tuesday, March 25, 2003 7:28 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Obtaining an RA6790GM

Hi Paul,
Good choice! I am told that Racal made some 14,000 6790/GMs. E-bay has them all the time. Most are in great shape. I have seen prices range between $500 to $1000. Make sure you get one that passes the internal Bite test. Also watch for corrosion from leaky batteries on the processer board. If you are into computer control look for one with the A-6 computer interface board. The 6790 interfaces quite easily with your computer. There is great software available at no charge from Al Tipsword.
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Talk soon, Max

----- Original Message -----
From: "pabigelow" <pbigelow@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Tuesday, March 25, 2003 6:06 PM
Subject: [Racal6790GM] Obtaining an RA6790GM

> Hello,
>
> Is there a good source for obtaining a nice looking, working RA6790GM?
>
> Best regards,
>
> Paul Bigelow
>
>
>
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<http://us.adserver.yahoo.com/l?M=246920.2960106.4328965.2848452/D=egroupmail/S=:HM/A=1481659/rand=976125003>

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45. 6790GM for sale

Yahoo group: Racal6790GM
Date: 2003-04-05 02:43:17 UTC
From: Kurt
Topic: 45 Message: 45

I have a RA 6790/GM for sale. This unit is in very good condition. It has the serial interface option and the RF amplifier option. It is a later production unit using LED's to illuminate the front panel displays. The displays are bright and clear. The backup battery has been replaced and has been moved off of the circuit board. The speaker output and line output have been brought out to a barrier strip for easy connection. This was done by Gary Wingerd and is nicely executed. The unit passes the bit test without any problems. The IF crystal filters measure as follows: .4, 1.4, 3.2, 8.2 and 16 KHz. USB and LSB use the 3.2 KHZ filter. This radio has been completely gone through by Gary Wingerd and works very well. Also included is a manual from Alan Bond that covers options and operation. The price is $950.00 plus shipping. Pictures available upon request.
Thanks,
Kurt Holbrook
Phoenix, AZ

46. Re: [Racal6790GM] 6790GM for sale

Yahoo group: Racal6790GM
Date: 2003-04-06 16:02:48 UTC
From: F5QE@AOL.COM
Topic: 45 Message: 46

DO YOU EXPORT TO FRANCE I have one unit fron Gary...

73 jp F5QE

I use paypal and I know the shipping cost to France. A VERY STRONG ENCLOSURE
" a la Gary ". it's necessary.

jean paul F5QE

47. Re: [Racal6790GM] 6790GM for sale

Yahoo group: Racal6790GM
Date: 2003-04-07 01:04:17 UTC
From: Kurt
Topic: 45 Message: 47

Jean Paul
I do not have a way to export the receiver. I also do not use pay pal. If you can get me a USA address to ship the radio to, and of course the money, I would be happy to sell you the receiver. If I may ask, how long ago did you get a radio from Gary Wingerd? The reason I ask is because I have heard that the US Government has recently tightened up export restrictions and I'm not sure if a 6790/GM can leave the country.
Thanks for the interest,
Kurt Holbrook
----- Original Message -----
From: <F5QE@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Sunday, April 06, 2003 9:02 AM
Subject: Re: [Racal6790GM] 6790GM for sale

> DO YOU EXPORT TO FRANCE I have one unit fron Gary...
>
> 73 jp F5QE
>
> I use paypal and I know the shipping cost to France. A VERY STRONG ENCLOSURE
> " a la Gary ". it's necessary.
>
> jean paul F5QE
>

48. F/S Racal 6793A

Yahoo group: Racal6790GM
Date: 2003-04-23 00:52:19 UTC
From: floormold
Topic: 48 Message: 48

For Sale:
Racal RA6793-AD4

I'm selling my 6793A which is in mint shape. The only factory option is the RS-485 interface. The radio tunes to 10 Khz but I only think the prom was changed and doesn't have the full LF option. Radio does receive LW and Loran. Included is a 10 Mhz external rubidium reference oscillator and complete service/operators manual.

This is a very nice setup, but you already know that if you subscribe to this group.

.jpgs of any view on request

$1550

Jeff
Rhode Island
jad1@...

49. New Displays for the RA6790/GM receiver

Yahoo group: Racal6790GM
Date: 2003-07-09 14:11:06 UTC
From: gewingerd
Topic: 49 Message: 49

I am Gary E. Wingerd and I worked for RACAL for more than 20 years , most of that was as the Repair Supervisor for Field Returns. RACAL stop working on all the receivers they built and I opened my Repair Business with the consent of RACAL. I was authorized to buy spare parts for the receivers through RACAL now THALES INC.
I don't have web site yet however I do most of the business via Email at gewingerd@... and I accept PayPal, Money Orders and Personnel Checks.

The displays are $40.00 each plus shipping, the 8526 Mode Display manufactured by Crystaloid now DCI, they are manufactured to the RACAL Drawings and meet all the specifications of these drawings. They were just produced last month and I should be receiving the 8270 Frequency Displays sometime this month and they will be $45.00 each plus shipping.
I ship US Priority Mail with Delivery Confirmation and you would have your shipment within 2 days once I receive the payment.

I am also the authorized repair center for RACAL Communications products.

Thanks,
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD. 21733

50. Re: [Racal6790GM] New Displays for the RA6790/GM receiver

Yahoo group: Racal6790GM
Date: 2003-07-09 15:16:14 UTC
From: Barry Hauser
Topic: 49 Message: 50

Hi Gary

A long shot, but I'll ask anyway, in case you have a lead on this.

I have some Racal Wordsafe Maxima multichannel recorders. They use T-160 video tapes and record up to 64 channels (depending on # of Input modules installed).

I have one that's indicating a bad power supply -- supposed to be 16 vdc, +5 and -5. The 16 is reading 14.8, the -5 is reading -2.8 while the +5 is OK at 5.1. There are other failed self tests, but I think these reflect the P/S.

Do you know anything/have any connection with these. Primary use is for logging on phone systems for customer service, etc. Also can be used with radio equipment for monitoring.

Any idea where to get parts reasonably? They're usually serviced by telecommunications (phone system) outfits, at high commercial rates, I suppose.

Barry

----- Original Message -----
From: "gewingerd" <gewingerd@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, July 09, 2003 10:11 AM
Subject: [Racal6790GM] New Displays for the RA6790/GM receiver

> I am Gary E. Wingerd and I worked for RACAL for more than 20 years ,
> most of that was as the Repair Supervisor for Field Returns. RACAL
> stop working on all the receivers they built and I opened my Repair
> Business with the consent of RACAL. I was authorized to buy spare
> parts for the receivers through RACAL now THALES INC.
> I don't have web site yet however I do most of the business via
> Email at gewingerd@... and I accept PayPal, Money Orders and
> Personnel Checks.
>
> The displays are $40.00 each plus shipping, the 8526 Mode Display
> manufactured by Crystaloid now DCI, they are manufactured to the
> RACAL Drawings and meet all the specifications of these drawings.
> They were just produced last month and I should be receiving the
> 8270 Frequency Displays sometime this month and they will be $45.00
> each plus shipping.
> I ship US Priority Mail with Delivery Confirmation and you would
> have your shipment within 2 days once I receive the payment.
>

> I am also the authorized repair center for RACAL Communications
> products.
>
> Thanks,
> Gary E. Wingerd
> 9107 Jordan Rd.
> Fairplay, MD. 21733
>
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51. Re: [Racal6790GM] New Displays for the RA6790/GM receiver

Yahoo group: Racal6790GM
Date: 2003-07-09 18:49:52 UTC
From: gary wingerd
Topic: 49 Message: 51

Barry ,

I worked on a bunch of them when I was in the Air Force, the -5 Volt supply should be a LM7905 regulator.

Good luck,
Gary
----- Original Message -----
From: Barry Hauser
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, July 09, 2003 8:16 AM
Subject: Re: [Racal6790GM] New Displays for the RA6790/GM receiver

Hi Gary

A long shot, but I'll ask anyway, in case you have a lead on this.

I have some Racal Wordsafe Maxima multichannel recorders. They use T-160 video tapes and record up to 64 channels (depending on # of Input modules installed).

I have one that's indicating a bad power supply -- supposed to be 16 vdc, +5 and -5. The 16 is reading 14.8, the -5 is reading -2.8 while the +5 is OK at 5.1. There are other failed self tests, but I think these reflect the P/S.

Do you know anything/have any connection with these. Primary use is for logging on phone systems for customer service, etc. Also can be used with radio equipment for monitoring.

Any idea where to get parts reasonably? They're usually serviced by telecommunications (phone system) outfits, at high commercial rates, I suppose.

Barry

----- Original Message -----
From: "gewingerd" <gewingerd@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, July 09, 2003 10:11 AM
Subject: [Racal6790GM] New Displays for the RA6790/GM receiver

> I am Gary E. Wingerd and I worked for RACAL for more than 20 years ,
> most of that was as the Repair Supervisor for Field Returns. RACAL
> stop working on all the receivers they built and I opened my Repair
> Business with the consent of RACAL. I was authorized to buy spare
> parts for the receivers through RACAL now THALES INC.
> I don't have web site yet however I do most of the business via

> Email at gewingerd@... and I accept PayPal, Money Orders and
> Personnel Checks.
>
> The displays are $40.00 each plus shipping, the 8526 Mode Display
> manufactured by Crystaloid now DCI, they are manufactured to the
> RACAL Drawings and meet all the specifications of these drawings.
> They were just produced last month and I should be receiving the
> 8270 Frequency Displays sometime this month and they will be $45.00
> each plus shipping.
> I ship US Priority Mail with Delivery Confirmation and you would
> have your shipment within 2 days once I receive the payment.
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> I am also the authorized repair center for RACAL Communications
> products.
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> Thanks,
> Gary E. Wingerd
> 9107 Jordan Rd.
> Fairplay, MD. 21733
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52. Re: [Racal6790GM] New Displays for the RA6790/GM receiver

Yahoo group: Racal6790GM
Date: 2003-07-09 19:04:51 UTC
From: Barry Hauser
Topic: 49 Message: 52

Thanks Gary - do you think that's what it is? Or is it more likely something else took it down. I can swap modules, but concerned I might spread the problem around if there's a short or something.

Transformer is awfully small in that P/S.

Do you know where I can find a service manual at a reasonable price?

regards,
Barry

----- Original Message -----
From: gary wingerd
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, July 09, 2003 2:49 PM
Subject: Re: [Racal6790GM] New Displays for the RA6790/GM receiver

Barry ,

I worked on a bunch of them when I was in the Air Force, the -5 Volt supply should be a LM7905 regulator.

Good luck,
Gary
----- Original Message -----
From: Barry Hauser
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, July 09, 2003 8:16 AM
Subject: Re: [Racal6790GM] New Displays for the RA6790/GM receiver

Hi Gary

A long shot, but I'll ask anyway, in case you have a lead on this.

I have some Racal Wordsafe Maxima multichannel recorders. They use T-160 video tapes and record up to 64 channels (depending on # of Input modules installed).

I have one that's indicating a bad power supply -- supposed to be 16 vdc, +5 and -5. The 16 is reading 14.8, the -5 is reading -2.8 while the +5 is OK at 5.1. There are other failed self tests, but I think these reflect the P/S.

Do you know anything/have any connection with these. Primary use is for logging on phone systems for customer service, etc. Also can be used with radio equipment for monitoring.

Any idea where to get parts reasonably? They're usually serviced by telecommunications (phone system) outfits, at high commercial rates, I suppose.

Barry

----- Original Message -----
From: "gewingerd" <gewingerd@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, July 09, 2003 10:11 AM
Subject: [Racal6790GM] New Displays for the RA6790/GM receiver

> I am Gary E. Wingerd and I worked for RACAL for more than 20 years ,
> most of that was as the Repair Supervisor for Field Returns. RACAL
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> parts for the receivers through RACAL now THALES INC.
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> RACAL Drawings and meet all the specifications of these drawings.
> They were just produced last month and I should be receiving the
> 8270 Frequency Displays sometime this month and they will be $45.00
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> I am also the authorized repair center for RACAL Communications
> products.
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> Thanks,
> Gary E. Wingerd
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> Fairplay, MD. 21733
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53. Re: [Racal6790GM] New Displays for the RA6790/GM receiver

Yahoo group: Racal6790GM
Date: 2003-07-09 19:21:46 UTC
From: Barry Hauser
Topic: 49 Message: 53

Ooops -- I meant to direct the last two emails to Gary W. only.

Sorry for the OT posts. (Unless somone else knows something about those WordSafe machines ;-)

Barry

54. RE: [Racal6790GM] New Displays for the RA6790/GM receiver

Yahoo group: Racal6790GM
Date: 2003-07-09 19:28:08 UTC
From: Carcia, Frank A. HS
Topic: 49 Message: 54

Barry,
Racal has a problem with electrolytic caps going short. The regulator could be in partial fold back due to
over current. A clue is the unregulated voltage being low. Check the temperature of the present regulator
and any caps attached to - 5 volts. The caps run warm before they blow or blow something else. fc

-----Original Message-----
From: Barry Hauser [mailto:barry@...]
Sent: Wednesday, July 09, 2003 3:22 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] New Displays for the RA6790/GM receiver

Ooops -- I meant to direct the last two emails to Gary W. only.

Sorry for the OT posts. (Unless somone else knows something about those WordSafe machines ;-)

Barry

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55. Re: [Racal6790GM] New Displays for the RA6790/GM receiver

Yahoo group: Racal6790GM
Date: 2003-07-09 12:54:42 UTC
From: gary wingerd
Topic: 49 Message: 55

Barry,

Try www.manualman.com , he has a bunch of manuals that are hard to find.

Like Frank said it could be a cap, check the input to the regulator that should tell the story, if you have an ohm meter check the resistance in and out of the regulator, plug and unplugged from the unit that it supplies power to that should tell you a little more.

Thanks,
Gary
----- Original Message -----
From: Barry Hauser
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, July 09, 2003 12:04 PM
Subject: Re: [Racal6790GM] New Displays for the RA6790/GM receiver

Thanks Gary - do you think that's what it is? Or is it more likely something else took it down. I can swap modules, but concerned I might spread the problem around if there's a short or something.

Transformer is awfully small in that P/S.

Do you know where I can find a service manual at a reasonable price?

regards,
Barry

----- Original Message -----
From: gary wingerd
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, July 09, 2003 2:49 PM
Subject: Re: [Racal6790GM] New Displays for the RA6790/GM receiver

Barry ,

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Good luck,
Gary
----- Original Message -----
From: Barry Hauser
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, July 09, 2003 8:16 AM
Subject: Re: [Racal6790GM] New Displays for the RA6790/GM receiver

Hi Gary

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I have some Racal Wordsafe Maxima multichannel recorders. They use T-160 video tapes and record up to 64 channels (depending on # of Input modules installed).

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Any idea where to get parts reasonably? They're usually serviced by telecommunications (phone system) outfits, at high commercial rates, I suppose.

Barry

----- Original Message -----
From: "gewingerd" <gewingerd@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, July 09, 2003 10:11 AM
Subject: [Racal6790GM] New Displays for the RA6790/GM receiver

> I am Gary E. Wingerd and I worked for RACAL for more than 20 years ,
> most of that was as the Repair Supervisor for Field Returns. RACAL
> stop working on all the receivers they built and I opened my Repair
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> parts for the receivers through RACAL now THALES INC.
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> Email at gewingerd@... and I accept PayPal, Money Orders and
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>
> The displays are $40.00 each plus shipping, the 8526 Mode Display
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> 8270 Frequency Displays sometime this month and they will be $45.00
> each plus shipping.
> I ship US Priority Mail with Delivery Confirmation and you would
> have your shipment within 2 days once I receive the payment.
>
> I am also the authorized repair center for RACAL Communications
> products.
>
> Thanks,
> Gary E. Wingerd
> 9107 Jordan Rd.
> Fairplay, MD. 21733
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56. Manual

Yahoo group: Racal6790GM
Date: 2003-08-24 03:33:19 UTC
From: RICH
Topic: 56 Message: 56

Boy traffic on this group has really been hopping......=;>)

Got my manual for the -23. Have been reading it and now I guess I
will start the preoperative proceedures to resusitate the victum.

I'm still not to sure what the purpose of this model was..... It
looks like it was ment for RATT/Digital modes........

RICH WA6KNW

57. Re: [Racal6790GM] Manual

Yahoo group: Racal6790GM
Date: 2003-08-24 14:23:35 UTC
From: Robert Langston
Topic: 56 Message: 57

I know right...

I just got three of my racal 6790s hooked up with an HF Multicoupler. One input 10 outputs. I'm also feeding a couple Icom R71's, a Drake R8b, and some Collins stuff. I picked the multicoupler up on eBay, it was a good investment. It even works fine on the AM BC band.

Regards,
Bob

RICH <sgm460122@...> wrote:
Boy traffic on this group has really been hopping......=;>)

Got my manual for the -23. Have been reading it and now I guess I
will start the preoperative proceedures to resusitate the victum.

I'm still not to sure what the purpose of this model was..... It
looks like it was ment for RATT/Digital modes........

RICH WA6KNW

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58. ra6790/gm from max-gain?

Yahoo group: Racal6790GM
Date: 2003-08-25 13:31:17 UTC
From: Michael OBrien
Topic: 58 Message: 58

Hi all

Anyone have any dealings with Allen Bond from max-gain regarding
the racal ra6790/gm receivers

Thanks
Mike

59. Re: [Racal6790GM] ra6790/gm from max-gain?

Yahoo group: Racal6790GM
Date: 2003-08-25 01:45:12 UTC
From: maxhdrm2
Topic: 58 Message: 59

Allen Bond is a great guy and has done alot to help me! see the link in our files. A+A+A+
Max.
----- Original Message -----
From: "Michael OBrien" <mikobrien@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Monday, August 25, 2003 9:31 AM
Subject: [Racal6790GM] ra6790/gm from max-gain?

> Hi all
>
> Anyone have any dealings with Allen Bond from max-gain regarding
> the racal ra6790/gm receivers
>
> Thanks
> Mike
>
>
>
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60. racal 6790 ISB-board

Yahoo group: Racal6790GM
Date: 2003-08-24 06:51:09 UTC
From: Martin Wolter
Topic: 60 Message: 60
Attachments: 1 described; binary payloads are missing from this source WARC

SchlichtHi all

Anyone out there having a spare isb board, the RF preamplifier or the LF/VLF option for the racal 6790. I`m looking for one of those for a long time now and couldn`t find a source to get one.
I would be very happy about any help!
Greetings from Bonn, kind regards, vy 73
Martin

61. Re: racal 6790 ISB-board

Yahoo group: Racal6790GM
Date: 2003-10-21 14:42:20 UTC
From: k5op
Topic: 60 Message: 61

--- In Racal6790GM@yahoogroups.com, "Martin Wolter" <dl6kr@w...>
wrote:
> SchlichtHi all
>
> Anyone out there having a spare isb board, the RF preamplifier or
the LF/VLF option for the racal 6790. I`m looking for one of those
for a long time now and couldn`t find a source to get one.
> I would be very happy about any help!
> Greetings from Bonn, kind regards, vy 73
> Martin Have you been able to find a LF/VLF option for your Racal
6790... 73's WALLY K5OP U8SA Martin

62. RE: [Racal6790GM] Re: racal 6790 ISB-board

Yahoo group: Racal6790GM
Date: 2003-10-21 14:47:07 UTC
From: Carcia, Frank A. HS
Topic: 60 Message: 62

Contact Gary Wingerd gewingerd@... <mailto:gewingerd@...>
he has lots of 6790 hardware. fc

-----Original Message-----
From: k5op [mailto:k5op@...]
Sent: Tuesday, October 21, 2003 10:42 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: racal 6790 ISB-board

--- In Racal6790GM@yahoogroups.com, "Martin Wolter" <dl6kr@w...>
wrote:
> SchlichtHi all
>
> Anyone out there having a spare isb board, the RF preamplifier or
the LF/VLF option for the racal 6790. I`m looking for one of those
for a long time now and couldn`t find a source to get one.
> I would be very happy about any help!
> Greetings from Bonn, kind regards, vy 73
> Martin Have you been able to find a LF/VLF option for your Racal
6790... 73's WALLY K5OP U8SA Martin

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9&media=atkins> click here

<http://us.adserver.yahoo.com/l?M=194081.4074964.5287182.1261774/D=egroupmai
l/S=:HM/A=1754016/rand=114430340>

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63. Re: [Racal6790GM] Re: racal 6790 ISB-board

Yahoo group: Racal6790GM
Date: 2003-10-20 07:35:19 UTC
From: Martin Wolter
Topic: 60 Message: 63

Hello Wally and the group,
I have tried different surces, also G.Wingerd, but no chance to locate any piece of the needed equipment.
I`m still hoping for help! greetings Martin DL6KR
----- Original Message -----
From: k5op
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, October 21, 2003 4:42 PM
Subject: [Racal6790GM] Re: racal 6790 ISB-board

--- In Racal6790GM@yahoogroups.com, "Martin Wolter" <dl6kr@w...>
wrote:
> SchlichtHi all
>
> Anyone out there having a spare isb board, the RF preamplifier or
the LF/VLF option for the racal 6790. I`m looking for one of those
for a long time now and couldn`t find a source to get one.
> I would be very happy about any help!
> Greetings from Bonn, kind regards, vy 73
> Martin Have you been able to find a LF/VLF option for your Racal
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64. How to verify the condition?

Yahoo group: Racal6790GM
Date: 2003-10-22 16:14:59 UTC
From: dx652000
Topic: 64 Message: 64

Hi to everyone,

I just joined the group. I have owned a RA6790/GM
couple of days and I'm not sure if its works ok.

After power on everything seems to work but
when I connect my antenna (outdoor random wire)
and compare the stations with my Kenwood R-5000
with the same antenna the signal is very faint.

Any Idea? What should I check? Sorry I'm not a 'Einstain'
with the receiver theory.

Regards, Olli

65. RE: [Racal6790GM] How to verify the condition?

Yahoo group: Racal6790GM
Date: 2003-10-22 16:26:35 UTC
From: Carcia, Frank A. HS
Topic: 64 Message: 65
Attachments: 1 described; binary payloads are missing from this source WARC

Sounds like a problem with the first mixer. You can remove the coax to
the first IF
and inject signals. Gary Wingerd can repair it for you
gewingerd@... <mailto:gewingerd@...>
he is very good. fc

-----Original Message-----
From: dx652000 [mailto:ott@...]
Sent: Wednesday, October 22, 2003 12:15 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] How to verify the condition?

Hi to everyone,

I just joined the group. I have owned a RA6790/GM
couple of days and I'm not sure if its works ok.

After power on everything seems to work but
when I connect my antenna (outdoor random wire)
and compare the stations with my Kenwood R-5000
with the same antenna the signal is very faint.

Any Idea? What should I check? Sorry I'm not a 'Einstain'
with the receiver theory.

Regards, Olli

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0&media=zone> click here

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66. Re: How to verify the condition?

Yahoo group: Racal6790GM
Date: 2003-10-22 17:18:05 UTC
From: dx652000
Topic: 64 Message: 66

Thanks Fc. That was a fast one :-)
I'll try to contact him.

Regards Olli

--- In Racal6790GM@yahoogroups.com, "Carcia, Frank A.
HS" <francis.carcia@h...> wrote:
> Sounds like a problem with the first mixer. You can remove
the coax to
> the first IF
> and inject signals. Gary Wingerd can repair it for you
> gewingerd@n... <mailto:gewingerd@n...>
> he is very good. fc
>
>
> -----Original Message-----
> From: dx652000 [mailto:ott@w...]
> Sent: Wednesday, October 22, 2003 12:15 PM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] How to verify the condition?
>
>
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> After power on everything seems to work but
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> Any Idea? What should I check? Sorry I'm not a 'Einstain'
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start.cfm?code=3051
> 0&media=zone> click here
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<http://us.adserver.yahoo.com/l?M=194081.4074964.5287182.1
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67. Re: [Racal6790GM] How to verify the condition?

Yahoo group: Racal6790GM
Date: 2003-10-22 11:12:53 UTC
From: maxhdrm2
Topic: 64 Message: 67

Olli,
I think a simple bite check would reveal the answers you are looking for. Simply hold the AM and the LOCK buttons down at the same time and the Receiver will go into a self test mode. The results will be in a two digit code. Post your results with the group and maybe someone can help you. There many talented people in our midst.
Max
P.S. Welcome to the group!
----- Original Message -----
From: "dx652000" <ott@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, October 22, 2003 12:14 PM
Subject: [Racal6790GM] How to verify the condition?

> Hi to everyone,
>
> I just joined the group. I have owned a RA6790/GM
> couple of days and I'm not sure if its works ok.
>
> After power on everything seems to work but
> when I connect my antenna (outdoor random wire)
> and compare the stations with my Kenwood R-5000
> with the same antenna the signal is very faint.
>
> Any Idea? What should I check? Sorry I'm not a 'Einstain'
> with the receiver theory.
>
> Regards, Olli
>
>
>
>
>
>
>
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>
>
>
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>
>

68. Re: How to verify the condition?

Yahoo group: Racal6790GM
Date: 2003-10-23 05:46:48 UTC
From: dx652000
Topic: 64 Message: 68

Thanks Max

Allready done that.
The code was 15.
I also contacted Gary Wingerd and
he has ideas where the problem is.

Thanks all for your help.
I will post the results as I know more.

Regards Olli

69. displays

Yahoo group: Racal6790GM
Date: 2003-11-29 22:38:50 UTC
From: sbbrant
Topic: 69 Message: 69

Does anyone know if the LCD freq display on the 6790 can be replaced
with the LED display?? Or can other LED readouts be added??

My LCd display is creaping dark from the top.
Looking for a replacement display or an LED display.

Any help please?

Thanks and 73's

Steve Brant
K8VII
steve@...

70. RE: [Racal6790GM] displays

Yahoo group: Racal6790GM
Date: 2003-11-30 22:16:04 UTC
From: Shaun Merrigan
Topic: 69 Message: 70

Steve,

I did not know there was an LED display for the 6790 :-)

What you can do (I have done it) is replace the LCD mode and/or
frequency display with a new one.

You can also upgrade an incandescent "backlite" illumination system to
the newer LED system.

All these parts are available from Gary Wingerd.

Good Listening,

Shaun Merrigan
---
smerriga@compus....
ACME LABS Materials Engineering

-----Original Message-----
From: sbbrant [mailto:steve@...]
Sent: Saturday, November 29, 2003 15:39
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] displays

Does anyone know if the LCD freq display on the 6790 can be replaced
with the LED display?? Or can other LED readouts be added??

My LCd display is creaping dark from the top.
Looking for a replacement display or an LED display.

Any help please?

Thanks and 73's

Steve Brant
K8VII
steve@...

71. Re: [Racal6790GM] displays

Yahoo group: Racal6790GM
Date: 2003-12-01 02:03:47 UTC
From: gewingerd
Topic: 69 Message: 71

Steve,

I have new displays for the receiver they are $35.00 each plus shipping, I also have the LED Lamp Board which is an upgrade for $75.00 each plus shipping, I also have this as a kit for $50.00 each which contain the 24 LED's, resistors and the board.

Thanks,
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733
PayPal is gewingerd@...

----- Original Message -----
From: sbbrant
To: Racal6790GM@yahoogroups.com
Sent: Saturday, November 29, 2003 2:38 PM
Subject: [Racal6790GM] displays

Does anyone know if the LCD freq display on the 6790 can be replaced
with the LED display?? Or can other LED readouts be added??

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Looking for a replacement display or an LED display.

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Thanks and 73's

Steve Brant
K8VII
steve@...

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72. Re: [Racal6790GM] displays

Yahoo group: Racal6790GM
Date: 2003-11-30 23:33:06 UTC
From: BRANT
Topic: 69 Message: 72

Hi Gary:

Thanks for the reply. I am interested in a display set and the led board.
I am assuming the board for 75 is complete and assembled.
Does the LED board work for both displays??

I can give you a cc number or can drop a MO in the mail tomorrow.

thanks

Steve Brant
K8VII
801 Konrad Ct
Little Rock, AR. 72223
501 821 4248
steve@...

----- Original Message -----
From: gewingerd
To: Racal6790GM@yahoogroups.com
Sent: Sunday, November 30, 2003 8:03 PM
Subject: Re: [Racal6790GM] displays

Steve,

I have new displays for the receiver they are $35.00 each plus shipping, I also have the LED Lamp Board which is an upgrade for $75.00 each plus shipping, I also have this as a kit for $50.00 each which contain the 24 LED's, resistors and the board.

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Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733
PayPal is gewingerd@...

----- Original Message -----
From: sbbrant
To: Racal6790GM@yahoogroups.com
Sent: Saturday, November 29, 2003 2:38 PM
Subject: [Racal6790GM] displays

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with the LED display?? Or can other LED readouts be added??

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Thanks and 73's

Steve Brant
K8VII
steve@...

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73. Re: [Racal6790GM] displays

Yahoo group: Racal6790GM
Date: 2003-12-01 03:52:24 UTC
From: gewingerd
Topic: 69 Message: 73

Steve,

I can accept a Credit Card Via PayPal, or a money order will be fine. The LED is built and ready to install all you have to do is attach the cable assy from your receiver and modify the Plexiglas assy, I include a drawing for this.
The total for the 2 LCD's and the complete LED Board plus shipping will be $155.00

Thanks,
Gary
----- Original Message -----
From: BRANT
To: Racal6790GM@yahoogroups.com
Sent: Sunday, November 30, 2003 3:33 PM
Subject: Re: [Racal6790GM] displays

Hi Gary:

Thanks for the reply. I am interested in a display set and the led board.
I am assuming the board for 75 is complete and assembled.
Does the LED board work for both displays??

I can give you a cc number or can drop a MO in the mail tomorrow.

thanks

Steve Brant
K8VII
801 Konrad Ct
Little Rock, AR. 72223
501 821 4248
steve@...

----- Original Message -----
From: gewingerd
To: Racal6790GM@yahoogroups.com
Sent: Sunday, November 30, 2003 8:03 PM
Subject: Re: [Racal6790GM] displays

Steve,

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Thanks,
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733

PayPal is gewingerd@netzero.com

----- Original Message -----
From: sbbrant
To: Racal6790GM@yahoogroups.com
Sent: Saturday, November 29, 2003 2:38 PM
Subject: [Racal6790GM] displays

Does anyone know if the LCD freq display on the 6790 can be replaced
with the LED display?? Or can other LED readouts be added??

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Looking for a replacement display or an LED display.

Any help please?

Thanks and 73's

Steve Brant
K8VII
steve@...

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74. Re: [Racal6790GM] Digest Number 23

Yahoo group: Racal6790GM
Date: 2003-12-01 12:25:49 UTC
From: k.gruenberger@chello.at
Topic: 74 Message: 74

HI there!

Contact Gary Wingerd at gewingerd@...

He recetly bought 100pcs of both displays and sells them for 35$ each!
Lookt out on ebay! he sells them there!

Greetings
Keith de OE

>
> Von: Racal6790GM@yahoogroups.com
> Datum: 2003/11/30 So AM 10:13:57 CET
> An: Racal6790GM@yahoogroups.com
> Betreff: [Racal6790GM] Digest Number 23
>
>
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>
>
> --
>
> There is 1 message in this issue.
>
> Topics in this digest:
>
> 1. displays
> From: "sbbrant" <steve@...>
>
>
> ____
> ____
>
> Message: 1
> Date: Sat, 29 Nov 2003 22:38:50 -0000
> From: "sbbrant" <steve@...>
> Subject: displays
>
> Does anyone know if the LCD freq display on the 6790 can be replaced
> with the LED display?? Or can other LED readouts be added??
>
> My LCd display is creaping dark from the top.
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>
> Any help please?

>
> Thanks and 73's
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> Steve Brant
> K8VII
> steve@...
>
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> --
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>
>

75. Re: [Racal6790GM] displays

Yahoo group: Racal6790GM
Date: 2003-12-12 05:45:58 UTC
From: BRANT
Topic: 69 Message: 75

Gary:

Thanks so much for the displays. Received them in great shape. made the mod
on the plastic , installed the leds and displays. All works very well.
Makes the radio quite useable again.

Again thanks. Happy Holidays

Best Regards
Steve Brant
K8VII

----- Original Message -----
From: gewingerd
To: Racal6790GM@yahoogroups.com
Sent: Sunday, November 30, 2003 9:52 PM
Subject: Re: [Racal6790GM] displays

Steve,

I can accept a Credit Card Via PayPal, or a money order will be fine. The LED is built and ready to install all you have to do is attach the cable assy from your receiver and modify the Plexiglas assy, I include a drawing for this.
The total for the 2 LCD's and the complete LED Board plus shipping will be $155.00

Thanks,
Gary
----- Original Message -----
From: BRANT
To: Racal6790GM@yahoogroups.com
Sent: Sunday, November 30, 2003 3:33 PM
Subject: Re: [Racal6790GM] displays

Hi Gary:

Thanks for the reply. I am interested in a display set and the led board.
I am assuming the board for 75 is complete and assembled.
Does the LED board work for both displays??

I can give you a cc number or can drop a MO in the mail tomorrow.

thanks

Steve Brant
K8VII
801 Konrad Ct
Little Rock, AR. 72223
501 821 4248

steve@...

----- Original Message -----
From: gewingerd
To: Racal6790GM@yahoogroups.com
Sent: Sunday, November 30, 2003 8:03 PM
Subject: Re: [Racal6790GM] displays

Steve,

I have new displays for the receiver they are $35.00 each plus shipping, I also have the LED Lamp Board which is an upgrade for $75.00 each plus shipping, I also have this as a kit for $50.00 each which contain the 24 LED's, resistors and the board.

Thanks,
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733
PayPal is gewingerd@...

----- Original Message -----
From: sbbrant
To: Racal6790GM@yahoogroups.com
Sent: Saturday, November 29, 2003 2:38 PM
Subject: [Racal6790GM] displays

Does anyone know if the LCD freq display on the 6790 can be replaced
with the LED display?? Or can other LED readouts be added??

My LCd display is creaping dark from the top.
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Any help please?

Thanks and 73's

Steve Brant
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steve@...

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76. Paint matching on Racal gear

Yahoo group: Racal6790GM
Date: 2003-12-23 04:28:01 UTC
From: Tom Adams
Topic: 76 Message: 76

Howdy, All.

Since stuff like Racal made external rack mounted speaker panels are so hard to get, I'd imagine that most folks are, like me, making thier own external goodies. However, I'm finding it to be incredibly frustrating; WHO is the dude who chose the paint colors used on Racal receiver front panels??? It's IMPOSSIBLE to match colors at a reasonable cost!

With the RA-6790/GM and the RA-6793, you can come pretty close with off the shelf spray paint, but once you get away from these two, all bets are off.

I have a couple of RA-1772s, and I've yet to find anything that's REALLY close.

My RA-6778C is painted an incredible greenish blue (or is it bluish green?) shade that NOTHING comes anywhere near.

I thought I'd beaten the problem by turning to automotive touch-up spray cans (it worked with the RA-1772), but even the wild shades that Detroit puts on cars aren't even in the ballpark.

I've considered the outfits that make up custom, computerized color matched cans of spray paint... but besides the hassle of hauling your receiver down to the dealer so that the computer can get a "look" at it, the BIG problem that these one of a kind cans of paint run anywhere from $25 to $50 a can!

The Collins folks have been able to get the paint makers to produce spray cans of "St. James gray" to cover thier needs... but Racal gear, besides being MUCH better receivers (ANTI-FLAME SUIT ON!!!), are far more COLORFUL receivers.

Has anyone found a source of paint that comes even close to the stuff on the Racal gear???

(OK... this IS a serious message, so now pull the tongue out of the cheek)

Thanks in advance,

Tom, W9LBB

77. Re: [Racal6790GM] Paint matching on Racal gear

Yahoo group: Racal6790GM
Date: 2003-12-23 16:50:41 UTC
From: gewingerd
Topic: 76 Message: 77

Tom,

On the RACAL RA6790/GM R2174 the color was chosen by the end user, USAF. on the RA6778 the end user again was USAF and on the RA6778C and Q it was the Canada Air Force.Racal never picked the color on the equipment it was assigned by the end user, all the new gear they sell now can come in any color that is requested at time of contract.

I will have to email someone I know to see if I can get the chip color for the receivers.

Thanks,
Gary
----- Original Message -----
From: Tom Adams
To: Racal6790GM@yahoogroups.com
Sent: Monday, December 22, 2003 8:28 PM
Subject: [Racal6790GM] Paint matching on Racal gear

Howdy, All.

Since stuff like Racal made external rack mounted speaker panels are so hard to get, I'd imagine that most folks are, like me, making thier own external goodies. However, I'm finding it to be incredibly frustrating; WHO is the dude who chose the paint colors used on Racal receiver front panels??? It's IMPOSSIBLE to match colors at a reasonable cost!

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78. Re: Paint matching on Racal gear

Yahoo group: Racal6790GM
Date: 2003-12-24 06:33:01 UTC
From: Tom Adams
Topic: 76 Message: 78

Hello Gary!

Thanks for the reply on this one. That answers a question that I've had for a LONG time about gear from many manufacturers. By this time, I suppose everyone has heard about the black Collins R-390As that were (supposedly) built for the CIA... in addition, I saw an old RCA AR-88 with a bright Navy blue front panel that appears to be original.

I don't want to get TOO far from the purpose of this list, but this Racal RA-6778C, aside from the paint job, is interesting in other ways.

I get the impression that it was never intended to drive an external speaker (and that little 2 incher in the panel sounds terrible!). It's the first Racal product I've ever seen that doesn't even have external speaker terminals on the back panel. Besides that, it looks to me like the biggest audio amp stage in the beast is only about 20 milliwatts... suitable for a headset, but bad news for a speaker, even with an impedance matching transformer hooked to the headset jack.

I wound up going above and beyond to add an external speaker here. First off, ran a cable from the panel mounted speaker to a closed circuit jack added to the rear panel (well, there goes the old TEMPEST rating!). That jack is feeding a handy little gizmo from the junk box, an OpAmp Labs #34 octal based amplifier module, which is mounted in a minibox bolted to the rear of the speaker panel, along with a small 24 VDC supply. With this addition, I've now got 8 watts into a 6" speaker... and the radio sounds pretty decent.

I'm wondering about something else on this rig.

If you've seen my review on the rig on eHam, you know that my rig is apparently Canadian military surplus, and somebody goofed before releasing the rig for sale; despite a warning label on the top dust cover, the memory channels were never erased, and they were still programmed when I got it. What REALLY got my attention is that the top 15 or 20 memory channels programmed in range from aprox. 31 to 57 MHz... outside of, and well above the radio's designed frequency range (10 KHz - 30 MHz)! This, combined with some of the elaborate controls for external equipment designed into the radio, lead me to believe that there is another box that goes with this set, and the box contains a VHF or UHF converter. True or false?

The odd thing about all of this... just for grins, I tried one of the VHF frequencies, and tuned a signal generator to that frequency. Amazingly, the radio HEARD it, but the sensitivity was way down in the mud.

That brings up another possibility... by any chance, is the external box simply a VHF front end for the radio, which, when connected, also unlocks the synthesizer (thru a plug jumper perhaps?) to allow it to tune above 30 MHz?

73's,

Tom, W9LBB

--- In Racal6790GM@yahoogroups.com, "gewingerd" <gewingerd@n...> wrote:
> Tom,
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> I will have to email someone I know to see if I can get the chip color for the receivers.
>
> Thanks,
> Gary

79. Re: [Racal6790GM] Re: Paint matching on Racal gear

Yahoo group: Racal6790GM
Date: 2003-12-24 21:09:47 UTC
From: gary wingerd
Topic: 76 Message: 79

Tom,

The RA6778C is the CANADA unit the "C" version is only for CANADA as well as the RA6778Q units, these are all part of an elaborate DF System funded by US Military as an early warning system. A bunch of huge antenna fields were attached to each of several receivers ranging from DC to several GHz. The whole deal was top secret at one time. They bought spare parts for the last time in 1984-1985 for the radios and I built the last 20 radios to ever be built.

Thanks,
Gary
----- Original Message -----
From: Tom Adams
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, December 23, 2003 10:33 PM
Subject: [Racal6790GM] Re: Paint matching on Racal gear

Hello Gary!

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Tom, W9LBB

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>
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> Thanks,
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80. Re: Paint matching on Racal gear

Yahoo group: Racal6790GM
Date: 2003-12-24 21:34:35 UTC
From: Tom Adams
Topic: 76 Message: 80

Hello Gary.

I rather thought the whole RA6778C deal was something like that. Thanks for what little information you're able to give on it... I've no doubt that there are still secrecy agreement concerns involved here (they made ME sign that same form when I left the Air Force, so I know. <<grin>>).

Based on where I got this rig, I'm guessing that the Canadians declared it surplus from the "elephant cage" Wullenweber D/F antenna installation at Leitrim (outside of Ottawa).

It certainly didn't suffer the slings and arrows of any uses other than a nice, soft installation at a clean, dry "spook" station; the radio is in IMMACULATE condition! The only appreciable wear or damage it shows is on the keytops of the Hall Effect switches (even that isn't too bad), and the Racal logo sticker is missing; the adhesive on that probably dried up and it fell off somewhere along the line.

My complements to you, or whoever built this rig; you guys did one hell of a good job on the design and construction of this one. While the RA-1772 is STILL my favorite Racal, it's clear that this is an updated version of that design, with a lot of extra bells and whistles added on. I find it to be the most fascinating Racal design I've encountered to date. Performance is excellent, even tho I haven't had the time or inclination to really do a through alignment job on it.

I've managed to get hold of the manuals for this beast, but the security concept of compartmentalization is clearly in effect with them; the sections that talk about the interconnection to external boxes are deliberately vague as to what the boxes actually ARE.

Besides being a damned fine communications receiver, the RA-6778C is an interesting relic of the the Cold War.

73's,

Tom, W9LBB

--- In Racal6790GM@yahoogroups.com, "gary wingerd" <gewingerd@n...> wrote:
> Tom,
>
> The RA6778C is the CANADA unit the "C" version is only for CANADA as well as the RA6778Q units, these are all part of an elaborate DF

System funded by US Military as an early warning system. A bunch of huge antenna fields were attached to each of several receivers ranging from DC to several GHz. The whole deal was top secret at one time. They bought spare parts for the last time in 1984-1985 for the radios and I built the last 20 radios to ever be built.
>
> Thanks,
> Gary

81. Re: Racal paint colours

Yahoo group: Racal6790GM
Date: 2004-01-02 06:09:59 UTC
From: Walter Salmaniw
Topic: 81 Message: 81

At 12:37 AM 12/24/2003, you wrote:
>Message: 1
> Date: Tue, 23 Dec 2003 08:50:41 -0800
> From: "gewingerd" <gewingerd@...>
>Subject: Re: Paint matching on Racal gear
>
>Tom,
>
> On the RACAL RA6790/GM R2174 the color was chosen by the end
> user, USAF. on the RA6778 the end user again was USAF and on the RA6778C
> and Q it was the Canada Air Force.Racal never picked the color on the
> equipment it was assigned by the end user, all the new gear they sell now
> can come in any color that is requested at time of contract.
>
>I will have to email someone I know to see if I can get the chip color for
>the receivers.

Very interesting information, Gary. I have for years informally researched the use of HF communications gear by the Canadian military, and specifically by the SIGINT stations using the AN/FRD-10 antenna arrays located in Masset (where I was stationed as their MO), and Gander, Newfoundland. Masset was constructed in the late 60s and very early 70s and probably used the Racal RA-17/117 valve receiver....similar vintage to the Collins R-390A which probably were used in the American SIGINT operations. For a brief period, Eddystone receivers were employed, but were unpopular with the techs, not having the necessary robustness required on 24/7 operation. Racals were again tried....initially the 6772 (which I own, surplused from Masset {an aside, here: The optical encoder on this unit is defective. Anyone have any ideas on repair?}, was tried but then a more modern variety was ultimately chosen. I had always assumed that it was the 6790, but was puzzled that none have come up on the Canadian surplus market. The RA6778C and especially Q fits the bill perfectly for remote operation with the Canadian military. Note that Masset is now remotely controlled from near Ottawa, Ontario. Thanks for the info, Gary!

Walter (Volodya) Salmaniw, MD
Victoria, BC, Canada

82. Re: [Racal6790GM] Digest Number 29

Yahoo group: Racal6790GM
Date: 2004-01-02 06:22:45 UTC
From: Walter Salmaniw
Topic: 82 Message: 82

At 12:28 AM 12/25/2003, you wrote:
>Message: 2
> Date: Wed, 24 Dec 2003 21:34:35 -0000
> From: "Tom Adams" <w9lbb@...>
>Subject: Re: Paint matching on Racal gear
>
>Hello Gary.
>
>I rather thought the whole RA6778C deal was something like that.
>Thanks for what little information you're able to give on it...
>I've no doubt that there are still secrecy agreement concerns
>involved here (they made ME sign that same form when I left the Air
>Force, so I know. <<grin>>).
>
>Based on where I got this rig, I'm guessing that the Canadians
>declared it surplus from the "elephant cage" Wullenweber D/F
>antenna installation at Leitrim (outside of Ottawa).

Tom, the Wullenweber D/F installations were never located at Leitrim, but rather at CFS Masset on the Queen Charlotte Islands of northern BC (where it still exists today) and at Gander, Newfoundland. Both are now remotely operated from Leitrim, where the majority of operators, known as 291ers (communications research) are now located. When I was stationed in Masset in the early 1980s, there were almost 300 servicemen, about half being 291ers, operating 24/7, and included some 20 or so USN personnel. The station converted to remote operation from 1 April, 1997, leaving less than 10 caretaker/technicians on site. A good summary of all this can be found at http://watserv1.uwaterloo.ca/~brobinso/masset.html.
Funny, I've never seen any surplused RA6778C or Q in Canada. Must be looking in the wrong spot!
Up to a few years ago, I had assumed that the Rockwell/Collins HF-2050 was the receiver used at these sites. It would have made sense, with some 1050 being produced for the Canadian military. In reality, these were mostly used aboard ships of the Canadian Navy. I've seen many, many of these on the surplus market. Any other Canadian users out there have any more information about the 6778?
.....Walt Salmaniw, Victoria, BC

Walter (Volodya) Salmaniw, MD
Victoria, BC, Canada

83. Re: Digest Number 29

Yahoo group: Racal6790GM
Date: 2004-01-13 18:54:38 UTC
From: Tom Adams
Topic: 82 Message: 83

Hello Walter.

Very interesting information!

From various bits of internet info, I was under the impression that Leitrim was a Wullenweber site. Apparently, it IS a monitoring station, but not meant for D/F purposes.

In any event, the antenna installations there must be VERY extensive, even if there isn't an Elephant Cage. I ran into a newspaper article on Leitrim mentioning that during the Cold War foreign diplomats used to come out to look over the arrays.

As far as the receiver is concerned, I got a high bid on it on EBAY... `I'm still very surprised that there wasn't more competition on the
bidding, and I got it for a price that I'd consider cheap. The seller was clearly NOT a ham or SWL; he knew next to nothing about the radio. He is located in Ottawa, thus the guess that the rig came from Leitrim, and obtained as part of a surplus sale from the site.

In any event, there seems to be a goodly number of RA6778Cs out there among Canadian surplus dealers; a Google search will
disclose at least two dealers who are selling them (at heart stopping prices!!!), as well as a few of the rigs in amateur / SWL hands.

As far as my beastie is concerned, it's equipped with the (optional?) serial interface, has 90 memory channels, and bears a serial number in the 1340 - 1370 range (I don't think it's a good idea to give EXACT serial numbers on the internet. Among gun collectors it's been common practice for years to publish a serial number as, for example, "13XX").

73's,

Tom, W9LBB

--- In Racal6790GM@yahoogroups.com, Walter Salmaniw <salmaniw@s...> wrote:
> At 12:28 AM 12/25/2003, you wrote:
> >Message: 2
> > Date: Wed, 24 Dec 2003 21:34:35 -0000
> > From: "Tom Adams" <w9lbb@y...>
> >Subject: Re: Paint matching on Racal gear
> >

> Tom, the Wullenweber D/F installations were never located at
Leitrim, but
> rather at CFS Masset on the Queen Charlotte Islands of northern BC
(where
> it still exists today) and at Gander, Newfoundland.

84. Re: racal 6790 ISB-board

Yahoo group: Racal6790GM
Date: 2004-01-13 19:38:39 UTC
From: Tom Adams
Topic: 60 Message: 84

Hello Martin.

As far as the preamp is concerned, I was able to upgrade my RA6793 by using the preamp from the RA1792. It appears to be the same unit electrically as used in the RA6790 series, but the mounting package is slightly different.

Apparently there are a LOT of RA1792s being parted out due to the microprocessor board problems endemic to them, so the preamps show up pretty regularly on EBAY.

The markings on the beast I used are A1 RF AMPL/LPF MODULE ST08076

73's,

Tom, W9LBB

--- In Racal6790GM@yahoogroups.com, "Martin Wolter" <dl6kr@w...> wrote:
> SchlichtHi all
>
> Anyone out there having a spare isb board, the RF preamplifier or the LF/VLF option for the racal 6790. I`m looking for one of those for a long time now and couldn`t find a source to get one.
> I would be very happy about any help!
> Greetings from Bonn, kind regards, vy 73
> Martin

85. RE: [Racal6790GM] Re: racal 6790 ISB-board

Yahoo group: Racal6790GM
Date: 2004-01-13 19:43:51 UTC
From: Carcia, Frank A. HS
Topic: 60 Message: 85

Hi All,
Toronto Surplus has bare 6790 processor boards for cheap money

fc

-----Original Message-----
From: Tom Adams [mailto:w9lbb@...]
Sent: Tuesday, January 13, 2004 2:39 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: racal 6790 ISB-board

Hello Martin.

As far as the preamp is concerned, I was able to upgrade my RA6793 by using the preamp from the RA1792. It appears to be the same unit electrically as used in the RA6790 series, but the mounting package is slightly different.

Apparently there are a LOT of RA1792s being parted out due to the microprocessor board problems endemic to them, so the preamps show up pretty regularly on EBAY.

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Tom, W9LBB

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> SchlichtHi all
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> Anyone out there having a spare isb board, the RF preamplifier or the LF/VLF option for the racal 6790. I`m looking for one of those for a long time now and couldn`t find a source to get one.
> I would be very happy about any help!
> Greetings from Bonn, kind regards, vy 73
> Martin

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/
<http://groups.yahoo.com/group/Racal6790GM/>

* To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com
<mailto:Racal6790GM-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

86. Re:Racal 6778C and SIGINT uses

Yahoo group: Racal6790GM
Date: 2004-01-14 06:02:04 UTC
From: Walter Salmaniw
Topic: 86 Message: 86

At 11:21 AM 1/13/2004, you wrote:

> From: "Tom Adams" <w9lbb@...>
>Subject: Re: Digest Number 29
>
>Hello Walter.
>
>Very interesting information!
>
> From various bits of internet info, I was under the impression that
>Leitrim was a Wullenweber site. Apparently, it IS a monitoring
>station, but not meant for D/F purposes.
>
>In any event, the antenna installations there must be VERY extensive,
>even if there isn't an Elephant Cage. I ran into a newspaper
>article on Leitrim mentioning that during the Cold War foreign
>diplomats used to come out to look over the arrays.
>
>As far as the receiver is concerned, I got a high bid on it on
>EBAY... `I'm still very surprised that there wasn't more competition
>on the
>bidding, and I got it for a price that I'd consider cheap. The seller
>was clearly NOT a ham or SWL; he knew next to nothing about the
>radio. He is located in Ottawa, thus the guess that the rig came from
>Leitrim, and obtained as part of a surplus sale from the site.
>
>In any event, there seems to be a goodly number of RA6778Cs out there
>among Canadian surplus dealers; a Google search will
>disclose at least two dealers who are selling them (at heart stopping
>prices!!!), as well as a few of the rigs in amateur / SWL hands.
>
>As far as my beastie is concerned, it's equipped with the (optional?)
>serial interface, has 90 memory channels, and bears a serial
>number in the 1340 - 1370 range (I don't think it's a good idea to
>give EXACT serial numbers on the internet. Among gun collectors it's
>been common practice for years to publish a serial number as, for
>example, "13XX").
Again further interesting information. It seems that the 6778 is not a particularly well known receiver compared to the 6790, and I did the same google search and found Toronto Surplus and WJ Ford with receivers available. Personally, I really like WJ Ford. They are extremely honest and pack expertly. I find Toronto Surplus too expensive for my tastes, and whether intentional or not, not entirely forthcoming with the condition of their equipment. I follow eBay, and recall some surplus communications receivers always advertised as "what you see is what you get", which

frankly is not good enough, IMHO. Upon closer inspection, it became obvious that the receiver in question was lacking several modules. To the beginner, they may not have noticed this, and bid too high. To the dealer, I say shame. It would be amply obvious to them that there were parts missing, and should be advertised as such. I never encountered anything like this with WJ Ford. My guess, and it's only a guess about Leitrim, is that, being close to Ottawa, they were in the business of monitoring diplomatic traffic to and from Ottawa, and perhaps Washington. If you visit this
website: http://watserv1.uwaterloo.ca/~brobinso/leitrim.html it provides some information about the station, and an aerial view with numerous domes, presumably for satellite communications interception, or possibly microwaves as well. They do talk about circular arrays which will require more research on my part, since I'm not familiar with the nomenclature used (Pusher HF-DF circularly disposed antenna array"--is this the same as a Wullenweber? There is no mention of the known nomenclature for the US Army/Airforce and US Navy Wullenweber designs (AN/FRD-10 and AN/FLR-9). Anyone out there know for sure? Did a bit more research about this Pusher array (isn't Google wonderful!). Check
out:
http://images.google.ca/imgres?imgurl=www.mindspring.com/~cummings7/wullen1.jpg&imgrefurl=http://www.mindspring.com/~cummings7/wullen.html&h=400&w=400&prev=/images%3Fq%3DAN/FRD-10%26svnum%3D10%26hl%3Den%26lr%3D%26ie%3DUTF-8%26oe%3DUTF-8.
Quote: "The AX-16 (also known as the "Pusher") is a 2 band miniaturized version of the AN/FRD-10 antenna and is used mostly in Britain where space is a premium. The diameter of the outer ring of elements is only about 400 feet, roughly half the diameter of the Pusher's larger cousins." OK, so it seems that these smaller stations (Alert, Leitrim to name but two), did in fact have HF DF capabilities. Interesting reading!.....Walt.

87. Re:Racal 6778C and SIGINT uses

Yahoo group: Racal6790GM
Date: 2004-01-15 03:07:16 UTC
From: Tom Adams
Topic: 86 Message: 87

Hello Walter.

>Personally, I really like WJ Ford. They are extremely honest and pack expertly.<

I agree... they seem to be very good folks to do business with.

>I find Toronto Surplus too expensive for my tastes, and whether intentional or not, not entirely forthcoming with the condition of their equipment. I follow eBay, and recall some surplus communications receivers always advertised as "what you see is what you get", which frankly is not good enough, IMHO.<

I sort of hold a grudge re. Toronto Surplus, once again due to EBAY; I was bidding on a package of two RA6790/GMs , and a last moment snipe bid by them cost me an extra $400! I still got a good deal IMHO, but it could have been a damned sight BETTER one! <<smile>>

>They do talk about circular arrays which will require more research on my part, since I'm not familiar with the nomenclature used (Pusher HF-DF circularly disposed antenna array"-- is this the same as a Wullenweber? <

I don't know for sure, but the impression I've gotten is that it's a sort of "Baby Elephant Cage"; less frequency coverage, and less angular resolution as a D/F antenna.

Also... I get the impression that PUSHER is an NSA code name for the array.

A bit more about the RA6778C:

I was really surprised by one thing on this rig. It's quite apparent that it was meant strictly for remote use, and local use was an afterthought.

This is the ONLY Racal product I've ever encountered that does NOT have a local speaker output on the rear panel! It has a tiny (2") speaker mounted in the front panel, and it sounds like death warmed over; clearly, it was just meant as a quick way of telling a tech if the radio is dead or not by punching the SPEAKER MUTE button. The speaker amp stage looks to me like it's well under 100 milliwatts maximum output; the main AF output is the line level 600 ohm meant for feeding a remote site link.

For local use of the radio, I had to make up a speaker panel, and run a lead from the panel mounted speaker that feeds an audio power amplifier built onto the speaker panel. It sounds pretty decent now...

100% better than the built in speaker does.

It's also clear that the radio was meant for 24/7 operation, and NEVER meant to be turned off. Having gotten accustomed to the RA1772 with a "floater" battery attached, I was expecting the time base oscillator to be up to operating temperature (and dead on frequency) at once. That's not the case tho; from a cold start, it takes 15 to 30 minutes for the crystal oven to come up to operating temperature. Until it does, the whole radio is upwards of 1 KHz off. Of course, it's likely that a SIGINT installation wouldn't even use the internal time base; they'd lock everything together with an external time base oscillator (that option DOES exist on this rig).

There is a modification that I must make to the rig. Just like the RA6790/GM, it has a memory floater battery (the same one, in fact), which is no doubt just as prone to leaking and eating up PC boards. A couple of remotely mounted NiCads are just what is needed here, just like the RA6790.

I've got to admit... this radio PERFORMS!!! I still prefer the RA1772 (which it was clearly derived from), but only because I prefer knobs and switches to keypads; it's just a sign that I've been playing with ham gear for too many years! <<smile>>

Just for grins... I've dragged out my copy of Don Lancaster's TTL COOKBOOK and have been toying with the idea of putting together a functional equivalent of the external antenna selector matrix that was apparently meant for use with this receiver. There's obviously NO WAY that I'll EVER have the need to select 64 different antennas (!!!), but designing & building such a beast is an interesting exercise. I've already got a rough design put together, and have located a hundred or so 5 VDC reed relays! <<smile>>

73's,

Tom, W9LBB

88. Re: [Racal6790GM] Digest Number 32

Yahoo group: Racal6790GM
Date: 2004-01-16 23:17:58 UTC
From: Walter Salmaniw
Topic: 88 Message: 88

At 01:25 AM 1/15/2004, you wrote:
>I find Toronto Surplus too expensive for my tastes, and
>whether intentional or not, not entirely forthcoming with the
>condition of their equipment. I follow eBay, and recall some surplus
>communications receivers always advertised as "what you see is what
>you get", which frankly is not good enough, IMHO.<
>
>I sort of hold a grudge re. Toronto Surplus, once again due to EBAY;
>I was bidding on a package of two RA6790/GMs , and a last moment
>snipe bid by them cost me an extra $400! I still got a good deal
>IMHO, but it could have been a damned sight BETTER one! <<smile>>

Now isn't this absolutely illegal and contrary to eBays rules? This type of behaviour should banish them from using eBay. I hope you lodged a complaint! If they were unhappy with the bidding, that's what reserve prices are for.....Walt.

Walter (Volodya) Salmaniw, MD
Victoria, BC, Canada

89. 6790GM processor info

Yahoo group: Racal6790GM
Date: 2004-02-06 11:20:24 UTC
From: maxhdrm2
Topic: 89 Message: 89

Forwarded from the Premium RX newsgroup,
Fellow members:

I have received this from a non-member and am forwarding it to the
List unmodified-

Greg

----- Original Message -----
From: "Küppers"
To: premium-rx-owner@ml.skirrow.org
Sent: Tuesday, February 03, 2004 1:23 PM
Subject: RA6790 / RA1792 processor board details

Hello,

although I have not subscribed to the Premium-RX list, I hope the
following gets through as your members might be interested in the
following points concerning the RA1792/RA6790 A6A2 processor boards.

Procuring MK3850/3853 replacements:
If you are in need of replacements for the 3850 and 3853 chips, then
you might consider going to Ebay and bidding for a "Chess Champion MK
I". This is a 1970's chess computer made by NOVAG. There is an MK3850
and a 3853 inside, both are mounted on sockets. The Chess Champion MK
I is auctioned quite frequently, I just got one for 11 EURO.

RA1792 1 Hz frequency resolution rom patches:
See below for patches to the 3 chips eprom version P83040/ISS 1 8204,
which will allow 1 Hz tuning resolution and display:

P83040/1/A: Address original value -> new value
(U5) 0x50f: 0x14 -> 0x2b
0x510: 0x14 -> 0x2b

P83040/2/A: 0x398: 0x22 -> 0x2b
(U6) 0x399: 0x0f -> 0x2b

P83040/3/A: 0x10e: 0x70 -> 0x2b
(U7) 0x760: 0x76 -> 0x67
0x762: 0xf6 -> 0xff

The original program already calculates frequencies with 1 Hz
accuracy, but sets the 1 Hz digit to 0 when transfering it to the
synthesizer board, and blanks it when transfering data to the
display. I NOPed the relevant bytes and also modified the smallest
frequency step size to be 1 Hz instead of 10 Hz.

If there is interest, I can provide the patched rom images. The P83040 roms are what I found in my receiver, which is marked DRG. No ST80730, GA/S2/0/0/0/A, Ser.-No. 9330.

Best regards
Guido Kueppers
(df2kw)

kueppersmclaudius17@...

90. More on the 3850 processor

Yahoo group: Racal6790GM
Date: 2004-02-06 11:40:38 UTC
From: maxhdrm2
Topic: 90 Message: 90

More info courtesy of the Premium RX newsgroup

Fellow Members:

I again forward an off List E-Mail I have received from Guido Kuppers (DF2KW) located between Cologne (he can see the cathedral from his window) and Bonn, Germany. Guido is not a member of the Premium-Rx List at the present time. Those who own RA 6790 and 1792 will find this interesting.

" ... I own a RA6790/GM and a RA1792 both with fairly complete manuals. I started poking around in the processor roms quite a time ago. Got hold of a 1980 copy of IC Master where I found the instruction set for the Fairchild F8, which helped me putting together a disassembler for the 3850 (the code of which I'm willing to share with anyone who wants it). I went through the disassembly and hooked my ancient HP1600A/HP1607A logic state analyzer to the RA1792. That's the story so far.
Meanwhile, I stumbled upon a free software emulator for the 3850/3853 couple, which will run the rom code and even provide a debugger. This is part of a huge arcade game and video console emulator named MESS/MAME, which emulates some 50 processors, both ancient and recent. It's an open source project targeted to Linux, DOS, and Windows.

Next project will be to set up a replacement for the whole processor board made up from a cheap GAMEBOY handheld computer (Z80 processor) which will eventually run a binary translation of the 3850 code.

Regards
Guido
(df2kw) ... "

---

91. RE: Backup battery:

Yahoo group: Racal6790GM
Date: 2004-02-07 18:37:11 UTC
From: Dan Seven
Topic: 89 Message: 91

Hello listers:

Presently the backup battery in use with the 6790GM here is the Data Sentry 2.4V NiCad. It is down to 2.15 V. How low is too low?

After not having it powered up for a couple of weeks, I flipped on the power and it did a self test. Is this the first indicator that the membat is low?

Also, with a new membat, I plan to solder leads onto the board and Velcro the unit out of the way. Are there any recommendations from the group to type of batteries and mounting location?

Thanks,
Dan7

92. Re: [Racal6790GM] RE: Backup battery:

Yahoo group: Racal6790GM
Date: 2004-02-08 01:04:19 UTC
From: gewingerd
Topic: 89 Message: 92

Dan,

The battery should last at least 30 days with the unit off, the NI-Cads are no longer available, the new replacement is a NiMH . I have replacement batteries for $15.00 plus $5.00 shipping in the US.

Thanks,
Gary
----- Original Message -----
From: Dan Seven
To: Racal6790GM@yahoogroups.com
Sent: Saturday, February 07, 2004 10:37 AM
Subject: [Racal6790GM] RE: Backup battery:

Hello listers:

Presently the backup battery in use with the 6790GM here is the Data Sentry 2.4V NiCad. It is down to 2.15 V. How low is too low?

After not having it powered up for a couple of weeks, I flipped on the power and it did a self test. Is this the first indicator that the membat is low?

Also, with a new membat, I plan to solder leads onto the board and Velcro the unit out of the way. Are there any recommendations from the group to type of batteries and mounting location?

Thanks,
Dan7

Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/

b.. To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

93. RE: [Racal6790GM] RE: Backup battery:

Yahoo group: Racal6790GM
Date: 2004-02-08 03:28:22 UTC
From: Dan Seven
Topic: 89 Message: 93

Thanks Gary:

Do you have any preamps?

Thanks, Dan7

-----Original Message-----
From: gewingerd [mailto:gewingerd@...]
Sent: Saturday, February 07, 2004 7:04 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] RE: Backup battery:

Dan,

The battery should last at least 30 days with the unit off, the NI-Cads are no longer available, the new replacement is a NiMH . I have replacement batteries for $15.00 plus $5.00 shipping in the US.

Thanks,

Gary

----- Original Message -----

From: Dan Seven <mailto:danseven@...>

To: Racal6790GM@yahoogroups.com

Sent: Saturday, February 07, 2004 10:37 AM

Subject: [Racal6790GM] RE: Backup battery:

Hello listers:

Presently the backup battery in use with the 6790GM here is the Data Sentry 2.4V NiCad. It is down to 2.15 V. How low is too low?

After not having it powered up for a couple of weeks, I flipped on the power and it did a self test. Is this the first indicator that the membat is low?

Also, with a new membat, I plan to solder leads onto the board and Velcro the unit out of the way. Are there any recommendations from the group to type of batteries and mounting location?

Thanks,
Dan7

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/

* To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com
<mailto:Racal6790GM-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

94. Re: [Racal6790GM] RE: Backup battery:

Yahoo group: Racal6790GM
Date: 2004-02-08 15:26:47 UTC
From: gewingerd
Topic: 89 Message: 94

Dan,

I am out of the preamps, here is something I received from Larry Robertson, looks good and should work.
http://www.arraysolutions.com/Products/ice/1.html

Thanks,
Gary
----- Original Message -----
From: Dan Seven
To: Racal6790GM@yahoogroups.com
Sent: Saturday, February 07, 2004 7:28 PM
Subject: RE: [Racal6790GM] RE: Backup battery:

Thanks Gary:

Do you have any preamps?

Thanks, Dan7

-----Original Message-----
From: gewingerd [mailto:gewingerd@...]
Sent: Saturday, February 07, 2004 7:04 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] RE: Backup battery:

Dan,

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Thanks,

Gary

----- Original Message -----

From: Dan Seven

To: Racal6790GM@yahoogroups.com

Sent: Saturday, February 07, 2004 10:37 AM

Subject: [Racal6790GM] RE: Backup battery:

Hello listers:

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Also, with a new membat, I plan to solder leads onto the board and Velcro the unit out of the way. Are there any recommendations from the group to type of batteries and mounting location?

Thanks,
Dan7

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http://groups.yahoo.com/group/Racal6790GM/

b.. To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

95. RE: [Racal6790GM] RE: Backup battery:

Yahoo group: Racal6790GM
Date: 2004-02-08 21:35:54 UTC
From: Dan Seven
Topic: 89 Message: 95

Thanks, Gary:

The receiver protector/ rf limiter and the beverage matching unit from this company is in use here. Very pleased so far, it's been maybe 1.5 years that I have been using them in front of my ra6790GM for lightning and also for static from snowstorms. So far so good.

Thanks, dan7

-----Original Message-----
From: gewingerd [mailto:gewingerd@...]
Sent: Sunday, February 08, 2004 9:27 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] RE: Backup battery:

Dan,

I am out of the preamps, here is something I received from Larry Robertson, looks good and should work.

<http://www.arraysolutions.com/Products/ice/1.html>
http://www.arraysolutions.com/Products/ice/1.html

Thanks,

Gary

----- Original Message -----

From: Dan Seven <mailto:danseven@...>

To: Racal6790GM@yahoogroups.com

Sent: Saturday, February 07, 2004 7:28 PM

Subject: RE: [Racal6790GM] RE: Backup battery:

Thanks Gary:

Do you have any preamps?

Thanks, Dan7

-----Original Message-----
From: gewingerd [mailto:gewingerd@...]
Sent: Saturday, February 07, 2004 7:04 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] RE: Backup battery:

Dan,

The battery should last at least 30 days with the unit off, the NI-Cads are no longer available, the new replacement is a NiMH . I have replacement batteries for $15.00 plus $5.00 shipping in the US.

Thanks,

Gary

----- Original Message -----

From: Dan Seven <mailto:danseven@...>

To: Racal6790GM@yahoogroups.com

Sent: Saturday, February 07, 2004 10:37 AM

Subject: [Racal6790GM] RE: Backup battery:

Hello listers:

Presently the backup battery in use with the 6790GM here is the Data Sentry 2.4V NiCad. It is down to 2.15 V. How low is too low?

After not having it powered up for a couple of weeks, I flipped on the power and it did a self test. Is this the first indicator that the membat is low?

Also, with a new membat, I plan to solder leads onto the board and Velcro the unit out of the way. Are there any recommendations from the group to type of batteries and mounting location?

Thanks,
Dan7

_____

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/

* To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com
<mailto:Racal6790GM-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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<http://docs.yahoo.com/info/terms/> Service.

96. Question re. Racal numerical codes

Yahoo group: Racal6790GM
Date: 2004-02-25 19:20:21 UTC
From: Tom Adams
Topic: 96 Message: 96

Hi, All.

We know that Racal equipment is coded with it's country of origin in the model number. For example, the RA6790 was made at Rockville; the 6000 series is the code for that plant.

I've figured out a few of them, but I wonder about others.

1000 and 4000 series = Bracknel, GB manufacture
6000 series = US manufacture
8000 series = Canadian manufacture

There's currently a receiver on EBAY that is a 3000 series. The seller claims that it's still in production.

Does anyone know where the 3000 series stuff is built?

Thanks,

Mr. T., W9LBB

97. Re: [Racal6790GM] Question re. Racal numerical codes

Yahoo group: Racal6790GM
Date: 2004-02-25 23:04:06 UTC
From: gewingerd
Topic: 96 Message: 97

It should be the UK
----- Original Message -----
From: Tom Adams
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, February 25, 2004 11:20 AM
Subject: [Racal6790GM] Question re. Racal numerical codes

Hi, All.

We know that Racal equipment is coded with it's country of origin in
the model number. For example, the RA6790 was made at Rockville;
the 6000 series is the code for that plant.

I've figured out a few of them, but I wonder about others.

1000 and 4000 series = Bracknel, GB manufacture
6000 series = US manufacture
8000 series = Canadian manufacture

There's currently a receiver on EBAY that is a 3000 series. The
seller claims that it's still in production.

Does anyone know where the 3000 series stuff is built?

Thanks,

Mr. T., W9LBB

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98. RA6790GM Serial Communications Help Needed

Yahoo group: Racal6790GM
Date: 2004-02-25 21:56:01 UTC
From: thinkdx
Topic: 98 Message: 98

Hello,

I recently installed an A6A1 Remote board for my RA6790GM, and have successfully configured it for remote operation via terminal programs.

However, I can only *send* commands successfully. Commands such as S5 or S6 that request the receiver to report back some parameters do not work. I.E., I can change frequencies, modes, bandwidths, initial BITE test, etc. but cannot get the receiver to list ANY of its parameters, such as filter setup using "S5" command.

Any thoughts on why I just have a one-way street going on?

Thanks,

Guy Atkins
Puyallup, WA

99. Re: [Racal6790GM] RA6790GM Serial Communications Help Needed

Yahoo group: Racal6790GM
Date: 2004-02-26 01:40:17 UTC
From: gewingerd
Topic: 98 Message: 99

These are the commands for the RA6790/GM RS232 Remote Interface, ADDRESS IS 00

ENTRY RESPONSE

$00S2 REMOTE Illuminates

S1 LOCAL, REMOTE GOES OFF

S2 REMOTE Illuminates

S3 STARTS BITE

S4 ENDS BITE

G GETS CURRENT RECEIVER SETTINGS

I .4 BW .4 KHz Selected

I 1 BW 1 KHz Selected

I 3 BW 3 KHz Selected

I 6 BW 6 KHz Selected

I 16 BW 16 KHz Selected

M1 AGC SHORT Selected

M2 AGC MEDIUM Selected

M3 AGC LONG Selected

M4 AGC MAN Selected

M5 AGC MAN/SHORT Selected

M6 AGC MAN/MEDIUM Selected

M7 AGC MAN/LONG Selected

B1.11 BFO +1.11

B-8.00 BFO -8.00

B8.00 BFO +8.00

F12.345678 FREQUENCY = 12.345678

F10.99 FREQUENCY = 10.99

D1 AM Selected

D2 FM Selected

D3 CW, BFO +8.00 Selected

D4 CW, BFO +0. Selected

D6 LSB Selected

D7 USB Selected

Type G and endline and you should get the info back.

What software are you running 8449 (MILITARY) or 9666(COMMERCIAL)

Gary E. Wingerd

----- Original Message -----
From: thinkdx
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, February 25, 2004 1:56 PM
Subject: [Racal6790GM] RA6790GM Serial Communications Help Needed

Hello,

I recently installed an A6A1 Remote board for my RA6790GM, and have
successfully configured it for remote operation via terminal
programs.

However, I can only *send* commands successfully. Commands such as
S5 or S6 that request the receiver to report back some parameters do
not work. I.E., I can change frequencies, modes, bandwidths, initial
BITE test, etc. but cannot get the receiver to list ANY of its
parameters, such as filter setup using "S5" command.

Any thoughts on why I just have a one-way street going on?

Thanks,

Guy Atkins
Puyallup, WA

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100. Re: [Racal6790GM] RA6790GM Serial Communications Help Needed

Yahoo group: Racal6790GM
Date: 2004-02-26 01:47:43 UTC
From: gewingerd
Topic: 98 Message: 100

Racal 6790/GM -- R-2174A Setup and Install Procedures

The setup for a 6790/GM is not a Plug/Play situation -- It requires a methodical series of steps to get each component to talk to the Interface and Software.

Step 1 -- Set or Check the Jumpers on the A6A1 Board -- (the one connected to the 26 pin circular connector on the rear ...)

6790/GM Communication Card A6A1 Jumper Settings for 232C Mode

Link1 Install
Link2 Open
Link3 Install
Link4 Install
Link5 Install
Link6 Open

Step 2

Fabricate or acquire a complete cable kit from CGT -- for the PC to the Racal 6790/GM. The Circular Female 26 Pin connector is also available from: American Connector Corp. Ph. (305)-591-7530 -- Part Number MS3476L16-26S (Connector) and MS3417-16N (Back Shell) -- about $30 for both. (now used as an Aircraft Connector).

Cable Details (6790GM to PC)

The relevant pin layout of the connectors (DB9 or DB25) is as follows:

Note: The 6790 address will be 37 with address lines set below: 6790 Round 26 Pin Conn. Description
6790 End DB9 Connector on PC DB 25 Connector on PC
A System Ground Open
B Data Out A to PC Data In RXD ======> Received
Pin 2
Pin 3
C Data Out Ground Ground <=====> Ground
Pin 5
Pin 7
F Data In A to PC data Out TXD <====== Transmitted
Pin 3
Pin 2
H Data In B Jumper to J
J Gnd. Jumper to H
K Receiver address D1-1 Open
L Receiver address D1-2 Open
M Receiver address D1-4 Open
N Receiver address D1-8 Ground for x7 -- 7 units digit Gnd to c

P Receiver address D2-1 Open
R Receiver address D2-2 Open
S Receiver address D2-4 Ground for 3x Gnd to c
T Receiver address D2-8 Ground for 3x total address 37 Gnd to c
U Parity select if grounded - No Parity if left open Open
V Even/Odd Parity leave open Open
W Baud Rate setting leave W,X,Y,Z open to set 19200 Open for 19200
X Baud rate setting leave open Open for 19200
Y Baud rate setting leave open Open for 19200
Z Baud rate setting leave open Open for 19200
a Gnd. Not used
b Gnd Not used
c System Ground Connect to S,T,N

Note 1 -- For 4800 bps ground Y and Z

Note 2 -- a 2 wire shielded cable is fine for this application

Step 3

Verify that 6790/Cable/PC Port are communicating.

The following procedure is normally used to verify the communication link between the PC and the Receiver -- independent of the Visual Radio Program. Any Dumb Terminal program will do -- or - in Win95/98 Accessories/Communications/HypertTerminal -- select the Terminal Program. Also, the original Windows Terminal Program is ideal.

Go to Settings

Select Terminal Settings

Set Local Echo on -- also select inbound/outbound CR/LF on

Select Communication Settings

Set communication options to 19200 -- 8 bits -- no parity N and 1 stop bit

Select the COM port that the Receiver is linked to -- -- Com 1 thru Com 4

Get back to the main terminal Panel and type:

$37S2 and then the Enter key -- this sends the Racal address 37 to the Receiver -- and set the mode to remote -- the Receiver Remote Mode LCD indicator should come on.

Now type F10.00 and then the Enter key -- this will set the frequency to 10 Mhz.

If OK then you are ready to use the VRADIO program.

If the above steps fail then the Com port is not available -- or it is in use by another system -- check the cable -- is the Racal powered on ? - Finally, call CGT Associates for support.

----- Original Message -----
From: gewingerd
To: Racal6790GM@yahoogroups.com

Sent: Wednesday, February 25, 2004 5:40 PM
Subject: Re: [Racal6790GM] RA6790GM Serial Communications Help Needed

These are the commands for the RA6790/GM RS232 Remote Interface, ADDRESS IS 00

ENTRY RESPONSE

$00S2 REMOTE Illuminates

S1 LOCAL, REMOTE GOES OFF

S2 REMOTE Illuminates

S3 STARTS BITE

S4 ENDS BITE

G GETS CURRENT RECEIVER SETTINGS

I .4 BW .4 KHz Selected

I 1 BW 1 KHz Selected

I 3 BW 3 KHz Selected

I 6 BW 6 KHz Selected

I 16 BW 16 KHz Selected

M1 AGC SHORT Selected

M2 AGC MEDIUM Selected

M3 AGC LONG Selected

M4 AGC MAN Selected

M5 AGC MAN/SHORT Selected

M6 AGC MAN/MEDIUM Selected

M7 AGC MAN/LONG Selected

B1.11 BFO +1.11

B-8.00 BFO -8.00

B8.00 BFO +8.00

F12.345678 FREQUENCY = 12.345678

F10.99 FREQUENCY = 10.99

D1 AM Selected

D2 FM Selected

D3 CW, BFO +8.00 Selected

D4 CW, BFO +0. Selected

D6 LSB Selected

D7 USB Selected

Type G and endline and you should get the info back.

What software are you running 8449 (MILITARY) or 9666(COMMERCIAL)

Gary E. Wingerd

----- Original Message -----
From: thinkdx
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, February 25, 2004 1:56 PM
Subject: [Racal6790GM] RA6790GM Serial Communications Help Needed

Hello,

I recently installed an A6A1 Remote board for my RA6790GM, and have
successfully configured it for remote operation via terminal
programs.

However, I can only *send* commands successfully. Commands such as
S5 or S6 that request the receiver to report back some parameters do
not work. I.E., I can change frequencies, modes, bandwidths, initial
BITE test, etc. but cannot get the receiver to list ANY of its
parameters, such as filter setup using "S5" command.

Any thoughts on why I just have a one-way street going on?

Thanks,

Guy Atkins
Puyallup, WA

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101. Re: [Racal6790GM] RA6790GM Serial Communications Help Needed

Yahoo group: Racal6790GM
Date: 2004-02-25 23:51:00 UTC
From: Barry Hauser
Topic: 98 Message: 101

Hi Gary (& list) --

I seem to recall needing later firmware to get the S-meter readings to work with VRadio on my 6790/GM's. (I gott the new chips from you some time ago.)

Were there other RX to PC elements that depended on firmware revision? I was thinking that maybe Guy was running something older than either 8449 or 9666, or whatever.

Barry

----- Original Message -----
From: gewingerd
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, February 25, 2004 8:47 PM
Subject: Re: [Racal6790GM] RA6790GM Serial Communications Help Needed

Racal 6790/GM -- R-2174A Setup and Install Procedures

The setup for a 6790/GM is not a Plug/Play situation -- It requires a methodical series of steps to get each component to talk to the Interface and Software.

Step 1 -- Set or Check the Jumpers on the A6A1 Board -- (the one connected to the 26 pin circular connector on the rear ...)

6790/GM Communication Card A6A1 Jumper Settings for 232C Mode

Link1 Install
Link2 Open
Link3 Install
Link4 Install
Link5 Install
Link6 Open

Step 2

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Cable Details (6790GM to PC)

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6790 End DB9 Connector on PC DB 25 Connector on PC
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B Data Out A to PC Data In RXD ======> Received
Pin 2
Pin 3
C Data Out Ground Ground <=====> Ground
Pin 5
Pin 7
F Data In A to PC data Out TXD <====== Transmitted
Pin 3
Pin 2
H Data In B Jumper to J
J Gnd. Jumper to H
K Receiver address D1-1 Open
L Receiver address D1-2 Open
M Receiver address D1-4 Open
N Receiver address D1-8 Ground for x7 -- 7 units digit Gnd to c

P Receiver address D2-1 Open
R Receiver address D2-2 Open
S Receiver address D2-4 Ground for 3x Gnd to c
T Receiver address D2-8 Ground for 3x total address 37 Gnd to c
U Parity select if grounded - No Parity if left open Open
V Even/Odd Parity leave open Open
W Baud Rate setting leave W,X,Y,Z open to set 19200 Open for 19200
X Baud rate setting leave open Open for 19200
Y Baud rate setting leave open Open for 19200
Z Baud rate setting leave open Open for 19200
a Gnd. Not used
b Gnd Not used
c System Ground Connect to S,T,N

Note 1 -- For 4800 bps ground Y and Z

Note 2 -- a 2 wire shielded cable is fine for this application

Step 3

Verify that 6790/Cable/PC Port are communicating.

The following procedure is normally used to verify the communication link between the PC and the Receiver -- independent of the Visual Radio Program. Any Dumb Terminal program will do -- or - in Win95/98 Accessories/Communications/HypertTerminal -- select the Terminal Program. Also, the original Windows Terminal Program is ideal.

Go to Settings

Select Terminal Settings

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Select Communication Settings

Set communication options to 19200 -- 8 bits -- no parity N and 1 stop bit

Select the COM port that the Receiver is linked to -- -- Com 1 thru Com 4

Get back to the main terminal Panel and type:

$37S2 and then the Enter key -- this sends the Racal address 37 to the Receiver -- and set the mode to remote -- the Receiver Remote Mode LCD indicator should come on.

Now type F10.00 and then the Enter key -- this will set the frequency to 10 Mhz.

If OK then you are ready to use the VRADIO program.

If the above steps fail then the Com port is not available -- or it is in use by another system -- check the cable -- is the Racal powered on ? - Finally, call CGT Associates for support.

----- Original Message -----
From: gewingerd
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, February 25, 2004 5:40 PM
Subject: Re: [Racal6790GM] RA6790GM Serial Communications Help Needed

These are the commands for the RA6790/GM RS232 Remote Interface, ADDRESS IS 00

ENTRY RESPONSE

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S1 LOCAL, REMOTE GOES OFF

S2 REMOTE Illuminates

S3 STARTS BITE

S4 ENDS BITE

G GETS CURRENT RECEIVER SETTINGS

I .4 BW .4 KHz Selected

I 1 BW 1 KHz Selected

I 3 BW 3 KHz Selected

I 6 BW 6 KHz Selected

I 16 BW 16 KHz Selected

M1 AGC SHORT Selected

M2 AGC MEDIUM Selected

M3 AGC LONG Selected

M4 AGC MAN Selected

M5 AGC MAN/SHORT Selected

M6 AGC MAN/MEDIUM Selected

M7 AGC MAN/LONG Selected

B1.11 BFO +1.11

B-8.00 BFO -8.00

B8.00 BFO +8.00

F12.345678 FREQUENCY = 12.345678

F10.99 FREQUENCY = 10.99

D1 AM Selected

D2 FM Selected

D3 CW, BFO +8.00 Selected

D4 CW, BFO +0. Selected

D6 LSB Selected

D7 USB Selected

Type G and endline and you should get the info back.

What software are you running 8449 (MILITARY) or 9666(COMMERCIAL)

Gary E. Wingerd

----- Original Message -----
From: thinkdx
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, February 25, 2004 1:56 PM
Subject: [Racal6790GM] RA6790GM Serial Communications Help Needed

Hello,

I recently installed an A6A1 Remote board for my RA6790GM, and have successfully configured it for remote operation via terminal programs.

However, I can only *send* commands successfully. Commands such as S5 or S6 that request the receiver to report back some parameters do not work. I.E., I can change frequencies, modes, bandwidths, initial BITE test, etc. but cannot get the receiver to list ANY of its parameters, such as filter setup using "S5" command.

Any thoughts on why I just have a one-way street going on?

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Guy Atkins
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c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

102. RE: [Racal6790GM] RA6790GM Serial Communications Help Needed

Yahoo group: Racal6790GM
Date: 2004-02-26 00:05:07 UTC
From: Guy Atkins
Topic: 98 Message: 102

Hi Gary,

My receiver has the 9666 software.

I've tried the "G" command, but no luck. Neither do "S6" (BITE results) nor "S5" (filter values installed) result in any response. All of the "send" type of instructions work great, though!

I recognized the configuration information in your other message as the details from the VRADIO site. This is what I've followed from the start. (BTW, Vradio itself does not recognize the receiver, when I put in the same values I'm using in a terminal program successfully for the "send" messages).

Also, what purpose does jumpering pins J & H accomplish?

Thanks,

Guy

-----Original Message-----
From: gewingerd [mailto:gewingerd@...]
Sent: Wednesday, February 25, 2004 5:40 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] RA6790GM Serial Communications Help Needed

These are the commands for the RA6790/GM RS232 Remote Interface, ADDRESS IS 00

ENTRY RESPONSE

$00S2 REMOTE Illuminates

S1 LOCAL, REMOTE GOES OFF

S2 REMOTE Illuminates

S3 STARTS BITE

S4 ENDS BITE

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I 1 BW 1 KHz Selected

I 3 BW 3 KHz Selected

I 6 BW 6 KHz Selected

I 16 BW 16 KHz Selected

M1 AGC SHORT Selected

M2 AGC MEDIUM Selected

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M5 AGC MAN/SHORT Selected

M6 AGC MAN/MEDIUM Selected

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B1.11 BFO +1.11

B-8.00 BFO -8.00

B8.00 BFO +8.00

F12.345678 FREQUENCY = 12.345678

F10.99 FREQUENCY = 10.99

D1 AM Selected

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D6 LSB Selected

D7 USB Selected

Type G and endline and you should get the info back.

What software are you running 8449 (MILITARY) or 9666(COMMERCIAL)

Gary E. Wingerd

103. Re: [Racal6790GM] RA6790GM Serial Communications Help Needed

Yahoo group: Racal6790GM
Date: 2004-02-26 03:00:28 UTC
From: mparkinson1
Topic: 98 Message: 103

This is Barry Hauser who!!!!!!!!
How are you doing.
Matt
----- Original Message -----
From: Barry Hauser
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, February 25, 2004 3:51 PM
Subject: Re: [Racal6790GM] RA6790GM Serial Communications Help Needed

Hi Gary (& list) --

I seem to recall needing later firmware to get the S-meter readings to work with VRadio on my 6790/GM's. (I gott the new chips from you some time ago.)

Were there other RX to PC elements that depended on firmware revision? I was thinking that maybe Guy was running something older than either 8449 or 9666, or whatever.

Barry

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To: Racal6790GM@yahoogroups.com
Sent: Wednesday, February 25, 2004 8:47 PM
Subject: Re: [Racal6790GM] RA6790GM Serial Communications Help Needed

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6790/GM Communication Card A6A1 Jumper Settings for 232C Mode

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Link2 Open
Link3 Install
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Link5 Install
Link6 Open

Step 2

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Cable Details (6790GM to PC)

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Pin 5
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Pin 3
Pin 2
H Data In B Jumper to J
J Gnd. Jumper to H
K Receiver address D1-1 Open
L Receiver address D1-2 Open
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P Receiver address D2-1 Open
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T Receiver address D2-8 Ground for 3x total address 37 Gnd to c
U Parity select if grounded - No Parity if left open Open
V Even/Odd Parity leave open Open
W Baud Rate setting leave W,X,Y,Z open to set 19200 Open for 19200
X Baud rate setting leave open Open for 19200
Y Baud rate setting leave open Open for 19200
Z Baud rate setting leave open Open for 19200
a Gnd. Not used
b Gnd Not used
c System Ground Connect to S,T,N

Note 1 -- For 4800 bps ground Y and Z

Note 2 -- a 2 wire shielded cable is fine for this application

Step 3

Verify that 6790/Cable/PC Port are communicating.

The following procedure is normally used to verify the communication link between the PC and the Receiver -- independent of the Visual Radio Program. Any Dumb Terminal program will do -- or - in Win95/98 Accessories/Communications/HypertTerminal -- select the Terminal Program. Also, the original Windows Terminal Program is ideal.

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Get back to the main terminal Panel and type:

$37S2 and then the Enter key -- this sends the Racal address 37 to the Receiver -- and set the mode to remote -- the Receiver Remote Mode LCD indicator should come on.

Now type F10.00 and then the Enter key -- this will set the frequency to 10 Mhz.

If OK then you are ready to use the VRADIO program.

If the above steps fail then the Com port is not available -- or it is in use by another system -- check the cable -- is the Racal powered on ? - Finally, call CGT Associates for support.

----- Original Message -----
From: gewingerd
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, February 25, 2004 5:40 PM
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S2 REMOTE Illuminates

S3 STARTS BITE

S4 ENDS BITE

G GETS CURRENT RECEIVER SETTINGS

I .4 BW .4 KHz Selected

I 1 BW 1 KHz Selected

I 3 BW 3 KHz Selected

I 6 BW 6 KHz Selected

I 16 BW 16 KHz Selected

M1 AGC SHORT Selected

M2 AGC MEDIUM Selected

M3 AGC LONG Selected

M4 AGC MAN Selected

M5 AGC MAN/SHORT Selected

M6 AGC MAN/MEDIUM Selected

M7 AGC MAN/LONG Selected

B1.11 BFO +1.11

B-8.00 BFO -8.00

B8.00 BFO +8.00

F12.345678 FREQUENCY = 12.345678

F10.99 FREQUENCY = 10.99

D1 AM Selected

D2 FM Selected

D3 CW, BFO +8.00 Selected

D4 CW, BFO +0. Selected

D6 LSB Selected

D7 USB Selected

Type G and endline and you should get the info back.

What software are you running 8449 (MILITARY) or 9666(COMMERCIAL)

Gary E. Wingerd

----- Original Message -----
From: thinkdx
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, February 25, 2004 1:56 PM
Subject: [Racal6790GM] RA6790GM Serial Communications Help Needed

Hello,

I recently installed an A6A1 Remote board for my RA6790GM, and have successfully configured it for remote operation via terminal programs.

However, I can only *send* commands successfully. Commands such as S5 or S6 that request the receiver to report back some parameters do not work. I.E., I can change frequencies, modes, bandwidths, initial BITE test, etc. but cannot get the receiver to list ANY of its parameters, such as filter setup using "S5" command.

Any thoughts on why I just have a one-way street going on?

Thanks,

Guy Atkins
Puyallup, WA

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Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/

b.. To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

104. RA6790/GM & RA3701 comparison

Yahoo group: Racal6790GM
Date: 2004-04-29 02:42:31 UTC
From: simonluttrell
Topic: 104 Message: 104

Hi - I'm new to this group, so hope someone can advise me.

I have been looking to buy a 'decent' HF receiver and have found a good condition RA6790/GM, with pre-amplifier. But I have also been offered a Racal RA3701 receiver. Although I generally know the specs and good/bad points about the 6790/GM, does anyone have any information about the 3701 receiver? I need to make a decision within a few days so any advise is much appreciated!

Simon

105. Re: [Racal6790GM] RA6790/GM & RA3701 comparison

Yahoo group: Racal6790GM
Date: 2004-04-29 07:46:56 UTC
From: gandalfg8@aol.com
Topic: 104 Message: 105

Hi Simon
I've never owned a 3701 but know some who do and it's spoken highly of.
It's also still relatively rare to find them available, in the UK anyway, compared with the 6790 and 1792.
The 6790 is a great RX but the 3701 started production ten years after the 6790 so is a more modern receiver.
Much as I like the 6790 if both were offered in similar condition, and at a similar price, I'd go for the 3701.
regards
Nigel
G8PZR

106. RE: [Racal6790GM] RA6790/GM & RA3701 comparison

Yahoo group: Racal6790GM
Date: 2004-04-29 12:41:02 UTC
From: Carcia, Frank A. HS
Topic: 104 Message: 106

Simon,
The Racal RA6830 is a great RX in a 1/2 rack. It is also 10 years newer than the 6790. It has an active input
limiter to protect the first mixer. The first mixer has better FETs. I have 8 of them. Issues are: Heat sink behind front panel a bit small for the 5 volt regulator. Fix: Piggy back a second heat sink for more area with switcher power supply. Linear change to a TO220 case and bolt it to the chassis side rail to make it stone cold. Unregulated voltage for switcher is 8 volts while linear is about 11 V. Second issue is some units have digital noise problems above 15 MHz. Fix Add some ferrite beads on the input coax of the second mixer.
I think is a bit better than the Cubic R3030. The 6830 has LED displays so they last for ever. I'm not a fan of lcds myself. I'm building a house so you may see a couple on ebay in the future and they will be perfect.
The cost of lumber may force me to sell a couple of them. Frank

-----Original Message-----
From: simonluttrell [mailto:simonluttrell@...]
Sent: Wednesday, April 28, 2004 10:43 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] RA6790/GM & RA3701 comparison

Hi - I'm new to this group, so hope someone can advise me.

I have been looking to buy a 'decent' HF receiver and have found a good condition RA6790/GM, with pre-amplifier. But I have also been offered a Racal RA3701 receiver. Although I generally know the specs and good/bad points about the 6790/GM, does anyone have any information about the 3701 receiver? I need to make a decision within a few days so any advise is much appreciated!

Simon

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/
<http://groups.yahoo.com/group/Racal6790GM/>

* To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com
<mailto:Racal6790GM-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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<http://docs.yahoo.com/info/terms/> .

107. (no subject)

Yahoo group: Racal6790GM
Date: 2004-05-09 12:08:58 UTC
From: Terry Szabo
Topic: 107 Message: 107

Hi there. I just want to introduce myself as a new member. my name is terry/n4sub. the racal 6790 has got to be the most fantastic radio I have ever owne d and operated. enjoy the day. 73--terry
-LIFE IS GOOD-

108. Cool computer control

Yahoo group: Racal6790GM
Date: 2004-05-16 17:23:57 UTC
From: maxhdrm2
Topic: 108 Message: 108

May 16, 2004
Hello fellow Racal owners,
I recently revisited the experience of computer control of the 6790GM. My first attempt at computer control although successful, was plagued by noise mostly from my large and bulky 17in computer monitor. I am using a shielded cable with the usual Mil connector and standard DB-9 connector. Additionally I used the software written and shared by Al Tipsword , W6GER. http://w6ger.gotnet.net/index.html
I must take a minute to commend Al for the great job he did writing the software that is loaded with really cool things for remote controlling the 6790. Also to say thanks for making it available as shareware to all of us.
On my second visit to computer control I decided that maybe I could reduce some of the noise with a surplus laptop as they are plentiful at swap meets and computer shows,(ebay too) and for the purpose of controlling a Racal I doubt I would need much. At the swap meet I found a 500mhz P-2 for $250. Definitely overkill but everything worked and all the accys were included. As predicted the noise problem was now solved. Again the software made the process a real breeze. The help menus are loaded with helpful information including construction of the interface cable. (also covered in recent posts).
On my first attempt I did E-mail Al Tipsword for some help and his response
was fast and courteous. It may be helpful to mention that one would need to have the A-6A1 Serial asynchronous interface circuit card installed and the internal jumpers set correctly. I am using the later version firmware 9666 but I don't think it's essential.
We all know that the 6790GM is a fine radio by itself but Computer control really takes the Racal 6790GM to a whole new level .
Max
I will add some pics and screen shots to picture section.

109. RE: [Racal6790GM] Cool computer control

Yahoo group: Racal6790GM
Date: 2004-05-16 23:15:29 UTC
From: Guy Atkins
Topic: 108 Message: 109

Hi Max,

I agree that computer control of the RA6790GM is a great way to go. I use ERGO from Creative Express to control both my RA6790GM and ICOM R-75. Shaun Merrigan and I have been beta testing the Racal driver for ERGO, and John Fallows (ERGO's author) has the driver 99% complete. All that's really left is for him to implement a sorting routine on the installed bandwidths and have the program be able to remember a group of user-selectable BFO offsets. This latter feature will enable a quick choice of "pseudo" LSB/USB offsets with the CW mode, enabling all bandwidths suitable for voice, not just the single installed USB/LSB bandwidth.

It's nice having a full selection of tuning rates for the Racal-- ERGO provides for steps of 1 Hz, 10 Hz, 100 Hz, 1 kHz, 5 kHz, 9 kHz, and 10 kHz. I also like the use of frequency databases such as ILGS, Fineware, HFCC, and so on.

I guess I've been fortunate, as I haven't had any noise problems when controlling receivers via desktop or laptop PCs. I recently sold my Windows laptop and bought a Powerbook G4, and I'm running the ERGO software via Virtual PC on the Apple platform.

On another topic, has any one else besides Frank Carcia and myself changed the Racal's roofing filters for narrower ones? 8 or 10 kHz wide filter modules at 40.455 MHz can help close-in dynamic range, especially useful for MW DXing weak signals that are adjacent or close to MW powerhouses. I scavenged the filters from surplus Cubic R-3030 IF boards.

Guy Atkins
Puyallup, WA

-----Original Message-----
From: maxhdrm2 [mailto:maxhdrm2@...]
Sent: Sunday, May 16, 2004 10:24 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Cool computer control

May 16, 2004
Hello fellow Racal owners,
I recently revisited the experience of computer control of the 6790GM. My first attempt at computer control although successful, was plagued by noise mostly from my large and bulky 17in computer monitor. I am using a shielded cable with the usual Mil connector and standard DB-9 connector. Additionally I used the software written and shared by Al Tipsword , W6GER. http://w6ger.gotnet.net/index.html I must take a minute to commend Al for the great job he did writing the software that is loaded with really cool things for remote

controlling the 6790. Also to say thanks for making it available as shareware to all of us.
On my second visit to computer control I decided that maybe I could reduce some of the noise with a surplus laptop as they are plentiful at swap meets and computer shows,(ebay too) and for the purpose of controlling a Racal I doubt I would need much. At the swap meet I found a 500mhz P-2 for $250. Definitely overkill but everything worked and all the accys were included. As predicted the noise problem was now solved. Again the software made the process a real breeze. The help menus are loaded with helpful information including construction of the interface cable. (also covered in recent posts).
On my first attempt I did E-mail Al Tipsword for some help and his response
was fast and courteous. It may be helpful to mention that one would need to have the A-6A1 Serial asynchronous interface circuit card installed and the internal jumpers set correctly. I am using the later version firmware 9666 but I don't think it's essential.
We all know that the 6790GM is a fine radio by itself but Computer control really takes the Racal 6790GM to a whole new level .
Max
I will add some pics and screen shots to picture section.

110. Re: [Racal6790GM] Cool computer control

Yahoo group: Racal6790GM
Date: 2004-05-17 13:34:46 UTC
From: maxhdrm2
Topic: 108 Message: 110

Hi Guy,
I for one would interested in hearing more about ERGO. Ok just found the websight http://www.swldx.com/ergo42.htm
Let us know when the Racal version is ready. The screenshots look pretty neat.
Sorry to report that I have not explored any changes to the IF roofing filters. I simply don't have enough spare time for experimenting, although it sounds like there could be some benefit. One of my Racals is an older model and goes down from time to time for various ailments. So at least some of my time is spent just keeping them running, and passing the BITE. My most recent dilemma was an A-7 board (first lo) that went down while I was listening one night. Fortunately I had a spare A-7. I may have found the offending IC but didn't pursue sourcing a new one. Another project for a cold winter night.
I will add the link for ERGOS to the links section at Yahoo.
Thanks, Max

Original Message -----
From: "Guy Atkins" <dx@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Sunday, May 16, 2004 7:15 PM
Subject: RE: [Racal6790GM] Cool computer control

> Hi Max,
>
> I agree that computer control of the RA6790GM is a great way to go. I use
> ERGO from Creative Express to control both my RA6790GM and ICOM R-75.
Shaun
> Merrigan and I have been beta testing the Racal driver for ERGO, and John
> Fallows (ERGO's author) has the driver 99% complete. All that's really
left
> is for him to implement a sorting routine on the installed bandwidths and
> have the program be able to remember a group of user-selectable BFO
offsets.
> This latter feature will enable a quick choice of "pseudo" LSB/USB offsets
> with the CW mode, enabling all bandwidths suitable for voice, not just the
> single installed USB/LSB bandwidth.
>
> It's nice having a full selection of tuning rates for the Racal-- ERGO
> provides for steps of 1 Hz, 10 Hz, 100 Hz, 1 kHz, 5 kHz, 9 kHz, and 10
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> I also like the use of frequency databases such as ILGS, Fineware, HFCC,
and
> so on.
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> I guess I've been fortunate, as I haven't had any noise problems when
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Windows
> laptop and bought a Powerbook G4, and I'm running the ERGO software via
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>
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> the Racal's roofing filters for narrower ones? 8 or 10 kHz wide filter
> modules at 40.455 MHz can help close-in dynamic range, especially useful
for
> MW DXing weak signals that are adjacent or close to MW powerhouses. I
> scavenged the filters from surplus Cubic R-3030 IF boards.
>
> Guy Atkins
> Puyallup, WA
>
>
> -----Original Message-----
> From: maxhdrm2 [mailto:maxhdrm2@...]
> Sent: Sunday, May 16, 2004 10:24 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Cool computer control
>
>
> May 16, 2004
> Hello fellow Racal owners,
> I recently revisited the experience of computer control of the
> 6790GM. My first attempt at computer control although successful, was
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> monitor. I am using a shielded cable with the usual Mil connector
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> and shared by Al Tipsword , W6GER. http://w6ger.gotnet.net/index.html
> I must take a minute to commend Al for the great job he did writing
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> On my first attempt I did E-mail Al Tipsword for some help and his
> response
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> installed and the internal jumpers set correctly. I am using the

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> We all know that the 6790GM is a fine radio by itself but Computer
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> Max
> I will add some pics and screen shots to picture section.
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> Yahoo! Groups Links
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111. RE: [Racal6790GM] Cool computer control

Yahoo group: Racal6790GM
Date: 2004-05-17 14:43:49 UTC
From: Guy Atkins
Topic: 108 Message: 111

Hi Max,

More information on ERGO from a users perspective is in an article I co-authored. It's titled "Emerging Techniques of High-Tech DXpeditioning" and is found on the dxing.info site: http://www.dxing.info/articles/ Scroll down the page and you'll see the link to the article itself; it has some more screen shots showing ERGO in use for DXing.

I read somewhere that the 40.455 MHz roofing filters were very expensive originally; in the neighborhood of $1000-1200! Keep an eye on Ebay if you want a pair of these. I got the Cubic IF boards via Ebay for $30-50 and simply desoldered the filters and put them in the Racal. I did need to drill a couple new holes through the PCB because the ground vs. signal pin orientation is 180 degrees off. Just be sure to replace both roofing filters, not just one. I tried replacing only one of the RA6790GM's 20 kHz modules, and the result was audio distortion on strong AM signals. I was never able to get rid of the distortion by working with various AGC & IF level settings. However, when I found and purchased a 2nd 10 kHz roofing filter, the pair worked great with no distortion.

Guy

-----Original Message-----
From: maxhdrm2 [mailto:maxhdrm2@...]
Sent: Monday, May 17, 2004 6:35 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Cool computer control

Hi Guy,
I for one would interested in hearing more about ERGO. Ok just found the websight http://www.swldx.com/ergo42.htm
Let us know when the Racal version is ready. The screenshots look pretty neat.
Sorry to report that I have not explored any changes to the IF roofing filters. I simply don't have enough spare time for experimenting, although it sounds like there could be some benefit. One of my Racals is an older model and goes down from time to time for various ailments. So at least some of my time is spent just keeping them running, and passing the BITE. My most recent dilemma was an A-7 board (first lo) that went down while I was listening one night. Fortunately I had a spare A-7. I may have found the offending IC but didn't pursue sourcing a new one. Another project for a cold winter night.
I will add the link for ERGOS to the links section at Yahoo.
Thanks, Max

112. Re: [Racal6790GM] Cool computer control

Yahoo group: Racal6790GM
Date: 2004-05-18 01:33:09 UTC
From: maxhdrm2
Topic: 108 Message: 112

Hi Guy,
Real interesting stuff, Thanks for sharing it with the group. Especially
the different styles and techniques employed by the guys in your club.
Thanks again, Max
----- Original Message -----
From: "Guy Atkins" <dx@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Monday, May 17, 2004 10:43 AM
Subject: RE: [Racal6790GM] Cool computer control

> Hi Max,
>
> More information on ERGO from a users perspective is in an article I
> co-authored. It's titled "Emerging Techniques of High-Tech DXpeditioning"
> and is found on the dxing.info site: http://www.dxing.info/articles/
> Scroll down the page and you'll see the link to the article itself; it has
> some more screen shots showing ERGO in use for DXing.
>
> I read somewhere that the 40.455 MHz roofing filters were very expensive
> originally; in the neighborhood of $1000-1200! Keep an eye on Ebay if you
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drill
> a couple new holes through the PCB because the ground vs. signal pin
> orientation is 180 degrees off. Just be sure to replace both roofing
> filters, not just one. I tried replacing only one of the RA6790GM's 20 kHz
> modules, and the result was audio distortion on strong AM signals. I was
> never able to get rid of the distortion by working with various AGC & IF
> level settings. However, when I found and purchased a 2nd 10 kHz roofing
> filter, the pair worked great with no distortion.
>
> Guy
>
>
> -----Original Message-----
> From: maxhdrm2 [mailto:maxhdrm2@...]
> Sent: Monday, May 17, 2004 6:35 AM
> To: Racal6790GM@yahoogroups.com
> Subject: Re: [Racal6790GM] Cool computer control
>
>
> Hi Guy,
> I for one would interested in hearing more about ERGO. Ok just found the
> websight http://www.swldx.com/ergo42.htm
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> Sorry to report that I have not explored any changes to the IF roofing
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> it sounds like there could be some benefit. One of my Racals is an older
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some
> of my time is spent just keeping them running, and passing the BITE. My
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> recent dilemma was an A-7 board (first lo) that went down while I was
> listening one night. Fortunately I had a spare A-7. I may have found the
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> cold winter night.
> I will add the link for ERGOS to the links section at Yahoo.
> Thanks, Max
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> Yahoo! Groups Links
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113. my bills are gone!

Yahoo group: Racal6790GM
Date: 2004-06-10 17:43:31 UTC
From: dilhbhz28
Topic: 113 Message: 113

hey hey, just thought id tell you guys about this free debt consolidation site that reduced my monthly payments by damn near half, no more worries about bills!

http://tpeirdmy.mycrowsoft.com

I posted this on Racal6790GM, if you dont want to be a member anymore just email Racal6790GM-unsubscribe@yahoogroups.com

114. Re: [Racal6790GM] my bills are gone!

Yahoo group: Racal6790GM
Date: 2004-06-11 05:47:17 UTC
From: Richard M. MC Clung
Topic: 113 Message: 114

Hey Hey, just thought I'd TELL YOU. I wish you were with your
bills, GONE. I don't want YOU to be a member anymore so why
don't YOU e-mail
<Racal6790GM-unsubscribe@yahoogroups.com>
RICH WA6KNW

> Date: Thu, 10 Jun 2004 17:43:31 -0000
> From: "dilhbhz28" <dilhbhz28@...>
> Subject: my bills are gone!
>
> hey hey, just thought id tell you guys about this free debt
> consolidation site that reduced my monthly payments by damn
> near half, no more worries about bills!
>
> http://tpeirdmy.mycrowsoft.com
>
> I posted this on Racal6790GM, if you dont want to be a member
> anymore just email Racal6790GM-unsubscribe@yahoogroups.com

115. Newbie, 6790 Question

Yahoo group: Racal6790GM
Date: 2004-06-22 13:59:15 UTC
From: fail999
Topic: 115 Message: 115

Hi All,

I just got a 6790 and don't have manuals yet. I need to know the audio pin out on the rear panel DB25 connector. I assume that it is 600 ohm line level type of output.

Thanks,
Had
had@...

116. RE: [Racal6790GM] Newbie, 6790 Question

Yahoo group: Racal6790GM
Date: 2004-06-22 14:28:06 UTC
From: Carcia, Frank A. HS
Topic: 115 Message: 116

you can down load the manual at premium rx

-----Original Message-----
From: fail999 [mailto:had@...]
Sent: Tuesday, June 22, 2004 9:59 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Newbie, 6790 Question

Hi All,

I just got a 6790 and don't have manuals yet. I need to know the
audio pin out on the rear panel DB25 connector. I assume that it is
600 ohm line level type of output.

Thanks,
Had
had@...

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<http://us.ard.yahoo.com/SIG=1291omjut/M=281792.5085342.6209801.1261774/D=gr
oups/S=1708396379:HM/EXP=1087999285/A=2058224/R=0/SIG=116652qbq/*http://my.y
ahoo.com/promo/ppets.html> click here

<http://us.adserver.yahoo.com/l?M=281792.5085342.6209801.1261774/D=groups/S=
:HM/A=2058224/rand=664139819>

_____

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/
<http://groups.yahoo.com/group/Racal6790GM/>

* To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com
<mailto:Racal6790GM-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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<http://docs.yahoo.com/info/terms/> .

117. Re: Newbie, 6790 Question

Yahoo group: Racal6790GM
Date: 2004-06-22 15:22:40 UTC
From: fail999
Topic: 115 Message: 117

Hi Frank,

I was just at the Premium RX site and sent a request to join. I did
not see anyplace to download manuals. Am I just dense?

Thanks,
Had

--- In Racal6790GM@yahoogroups.com, "Carcia, Frank A. HS"
<francis.carcia@h...> wrote:
> you can down load the manual at premium rx
>
> -----Original Message-----
> From: fail999 [mailto:had@t...]
> Sent: Tuesday, June 22, 2004 9:59 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Newbie, 6790 Question
>
>
> Hi All,
>
> I just got a 6790 and don't have manuals yet. I need to know the
> audio pin out on the rear panel DB25 connector. I assume that it is
> 600 ohm line level type of output.
>
> Thanks,
> Had
> had@t...
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> Yahoo! Groups Sponsor
>
> ADVERTISEMENT
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>
<http://us.ard.yahoo.com/SIG=1291omjut/M=281792.5085342.6209801.126177
4/D=gr
>
oups/S=1708396379:HM/EXP=1087999285/A=2058224/R=0/SIG=116652qbq/*http:
//my.y
> ahoo.com/promo/ppets.html> click here
>
> <http://us.adserver.yahoo.com/l?
M=281792.5085342.6209801.1261774/D=groups/S=

> :HM/A=2058224/rand=664139819>
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> Yahoo! Groups Links
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>
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/Racal6790GM/
> <http://groups.yahoo.com/group/Racal6790GM/>
>
>
> * To unsubscribe from this group, send an email to:
> Racal6790GM-unsubscribe@yahoogroups.com
> <mailto:Racal6790GM-unsubscribe@yahoogroups.com?
subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service
> <http://docs.yahoo.com/info/terms/> .

118. RE: [Racal6790GM] Re: Newbie, 6790 Question

Yahoo group: Racal6790GM
Date: 2004-06-22 15:40:09 UTC
From: Carcia, Frank A. HS
Topic: 115 Message: 118

Check under "reference". You may have to be a member to get at it though.
The files are quite large. RA6790 will get you in the gang but it may take
a couple
days for the pit boss to get you signed up, fc

-----Original Message-----
From: fail999 [mailto:had@...]
Sent: Tuesday, June 22, 2004 11:23 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Newbie, 6790 Question

Hi Frank,

I was just at the Premium RX site and sent a request to join. I did
not see anyplace to download manuals. Am I just dense?

Thanks,
Had

--- In Racal6790GM@yahoogroups.com, "Carcia, Frank A. HS"
<francis.carcia@h...> wrote:
> you can down load the manual at premium rx
>
> -----Original Message-----
> From: fail999 [mailto:had@t...]
> Sent: Tuesday, June 22, 2004 9:59 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Newbie, 6790 Question
>
>
> Hi All,
>
> I just got a 6790 and don't have manuals yet. I need to know the
> audio pin out on the rear panel DB25 connector. I assume that it is
> 600 ohm line level type of output.
>
> Thanks,
> Had
> had@t...
>
>
>
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>
>
< http://us.ard.yahoo.com/SIG=1291omjut/M=281792.5085342.6209801.126177
<http://us.ard.yahoo.com/SIG=1291omjut/M=281792.5085342.6209801.126177>
4/D=gr
>
oups/S=1708396379:HM/EXP=1087999285/A=2058224/R=0/SIG=116652qbq/*http:
//my.y
> ahoo.com/promo/ppets.html> click here
>
> < http://us.adserver.yahoo.com/l? <http://us.adserver.yahoo.com/l?>
M=281792.5085342.6209801.1261774/D=groups/S=
> :HM/A=2058224/rand=664139819>
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oups/S=1708396379:HM/EXP=1088004218/A=2128215/R=0/SIG=10se96mf6/*http://comp
anion.yahoo.com> click here

<http://us.adserver.yahoo.com/l?M=295196.4901138.6071305.3001176/D=groups/S=
:HM/A=2128215/rand=279101988>

_____

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119. RE: [Racal6790GM] Re: Newbie, 6790 Question

Yahoo group: Racal6790GM
Date: 2004-06-22 16:42:07 UTC
From: Guy Atkins
Topic: 115 Message: 119

Hi Had,

Here's the link to the manuals page that includes the full RA6790GM manual:

http://kahuna.sdsu.edu/~mechtron/PremRxPage/reference.htm

regards,

Guy

-----Original Message-----
From: fail999 [mailto:had@...]
Sent: Tuesday, June 22, 2004 8:23 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Newbie, 6790 Question

Hi Frank,

I was just at the Premium RX site and sent a request to join. I did
not see anyplace to download manuals. Am I just dense?

Thanks,
Had

120. Re: Newbie, 6790 Question

Yahoo group: Racal6790GM
Date: 2004-06-22 17:04:45 UTC
From: fail999
Topic: 115 Message: 120

Guy,

Thanks for the info. It's nice to have broadband, I grabed it.

Had

--- In Racal6790GM@yahoogroups.com, "Guy Atkins" <dx@g...> wrote:
> Hi Had,
>
> Here's the link to the manuals page that includes the full RA6790GM
manual:
>
> http://kahuna.sdsu.edu/~mechtron/PremRxPage/reference.htm
>
> regards,
>

121. "Gary Wingerd's Personal Radio"???

Yahoo group: Racal6790GM
Date: 2004-07-14 02:54:18 UTC
From: Tom Adams
Topic: 121 Message: 121

Howdy, Gang.

Ran into an EBAY item that I'm a bit suspicious of. His presentation of the item has me curious tho...

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=4673&item=5709247750&rd=1

Hey, Gary... if you're watching this list, is this guy telling the truth? Is this your personal hoss?

73's,

Tom, W9LBB

122. RE: [Racal6790GM] Cool computer control

Yahoo group: Racal6790GM
Date: 2004-07-14 03:24:29 UTC
From: Guy Atkins
Topic: 108 Message: 122

Hi Max,

FYI, the RA6790GM driver software for the ERGO control program is a "go". I tested the final version last week during a 3-night DXpedition to Grayland, WA. It worked very well, and I'm sure that it's as finished as it's going to get. If you download the latest beta version of ERGO 4, it should be included among the drivers. You can always get the latest drivers by using the "program update" feature of ERGO once you have ERGO installed.

On John Fallows' beta page for the ERGO web site, the 6790 driver is still listed as "beta", but I think he just hasn't updated the text yet. The version number of the latest ERGO_RA6790.dll driver file itself is 1.0.0.12 (right-click>>properties>>version>>file version)

The most recent change to the driver has been the addition of two pseudo (fake) modes called FAX and DATA. These two were created so that assignable BFO offsets can be chosen for use with the "true" CW mode on the receiver. This allows use of different bandwidths to listen in LSB or USB-- a major improvement over manual RA6790GM operation. The BFO offset values you chose to go along with DATA and FAX are "sticky" and can easily be toggled between. Now you don't have to be limited to whatever filter(s) you have in the USB/LSB-only slot(s) in the Racal, or go through the laborious process of CW mode and BFO offset adjustments manually AND retune the receiver up or down when simulating LSB/USB for voice modes.

regards,

Guy Atkins
Puyallup, WA USA

-----Original Message-----
From: maxhdrm2 [mailto:maxhdrm2@...]
Sent: Monday, May 17, 2004 6:35 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Cool computer control

Hi Guy,
I for one would interested in hearing more about ERGO. Ok just found the websight http://www.swldx.com/ergo42.htm
Let us know when the Racal version is ready. The screenshots look pretty neat.
Sorry to report that I have not explored any changes to the IF roofing filters. I simply don't have enough spare time for experimenting, although it sounds like there could be some benefit. One of my Racals is an older model and goes down from time to time for various ailments. So at least some of my time is spent just keeping them running, and passing the BITE. My most recent dilemma was an A-7 board (first lo) that went down while I was

listening one night. Fortunately I had a spare A-7. I may have found the offending IC but didn't pursue sourcing a new one. Another project for a cold winter night.
I will add the link for ERGOS to the links section at Yahoo.
Thanks, Max

123. RE: [Racal6790GM] Cool computer control

Yahoo group: Racal6790GM
Date: 2004-07-14 12:00:49 UTC
From: Carcia, Frank A. HS
Topic: 108 Message: 123

Hi All,
I find the 1.2 KHz special filter used in Racal radios a good SSB filter during
battle conditions. fc

-----Original Message-----
From: Guy Atkins [mailto:dx@...]
Sent: Tuesday, July 13, 2004 11:24 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] Cool computer control

Hi Max,

FYI, the RA6790GM driver software for the ERGO control program is a "go". I tested the final version last week during a 3-night DXpedition to Grayland, WA. It worked very well, and I'm sure that it's as finished as it's going to get. If you download the latest beta version of ERGO 4, it should be included among the drivers. You can always get the latest drivers by using the "program update" feature of ERGO once you have ERGO installed.

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regards,

Guy Atkins
Puyallup, WA USA

-----Original Message-----
From: maxhdrm2 [mailto:maxhdrm2@...]
Sent: Monday, May 17, 2004 6:35 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Cool computer control

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I will add the link for ERGOS to the links section at Yahoo.
Thanks, Max

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<http://us.adserver.yahoo.com/l?M=295196.4901138.6071305.3001176/D=groups/S=:HM/A=2128215/rand=811966578>

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124. Re: [Racal6790GM] "Gary Wingerd's Personal Radio"???

Yahoo group: Racal6790GM
Date: 2004-07-14 17:10:34 UTC
From: gary wingerd
Topic: 121 Message: 124

Tom,

I put a bunch of time and money in that one and I kept it for quite sometime before I parted with it. So yes it was one of the many that I have owned in the last couple of years.

Thanks,
Gary
----- Original Message -----
From: Tom Adams
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, July 13, 2004 7:54 PM
Subject: [Racal6790GM] "Gary Wingerd's Personal Radio"???

Howdy, Gang.

Ran into an EBAY item that I'm a bit suspicious of. His presentation
of the item has me curious tho...

http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&category=4673&item=5709247750&rd=1

Hey, Gary... if you're watching this list, is this guy telling the
truth? Is this your personal hoss?

73's,

Tom, W9LBB

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b.. To unsubscribe from this group, send an email to:
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125. Re: [Racal6790GM] Cool computer control

Yahoo group: Racal6790GM
Date: 2004-07-14 22:31:37 UTC
From: maxhdrm2
Topic: 108 Message: 125

Hello Guy,
And thanks for sharing the update with the group. I am sure there are
plenty of
people would would like to try this software. It's got to be pretty cool to
be able to go out
on an expedition for the sole purpose of monitoring the HF spectrum. I wish
I had the time!
Thanks alot and I hope to try it soon.
Max
----- Original Message -----
From: "Guy Atkins" <dx@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Tuesday, July 13, 2004 11:24 PM
Subject: RE: [Racal6790GM] Cool computer control

> Hi Max,
>
> FYI, the RA6790GM driver software for the ERGO control program is a "go".
I
> tested the final version last week during a 3-night DXpedition to
Grayland,
> WA. It worked very well, and I'm sure that it's as finished as it's going
to
> get. If you download the latest beta version of ERGO 4, it should be
> included among the drivers. You can always get the latest drivers by using
> the "program update" feature of ERGO once you have ERGO installed.
>
> On John Fallows' beta page for the ERGO web site, the 6790 driver is still
> listed as "beta", but I think he just hasn't updated the text yet. The
> version number of the latest ERGO_RA6790.dll driver file itself is
1.0.0.12
> (right-click>>properties>>version>>file version)
>
> The most recent change to the driver has been the addition of two pseudo
> (fake) modes called FAX and DATA. These two were created so that
assignable
> BFO offsets can be chosen for use with the "true" CW mode on the receiver.
> This allows use of different bandwidths to listen in LSB or USB-- a major
> improvement over manual RA6790GM operation. The BFO offset values you
chose
> to go along with DATA and FAX are "sticky" and can easily be toggled
> between. Now you don't have to be limited to whatever filter(s) you have
in
> the USB/LSB-only slot(s) in the Racal, or go through the laborious process
> of CW mode and BFO offset adjustments manually AND retune the receiver up

or
> down when simulating LSB/USB for voice modes.
>
> regards,
>
> Guy Atkins
> Puyallup, WA USA
>
>
> -----Original Message-----
> From: maxhdrm2 [mailto:maxhdrm2@...]
> Sent: Monday, May 17, 2004 6:35 AM
> To: Racal6790GM@yahoogroups.com
> Subject: Re: [Racal6790GM] Cool computer control
>
>
> Hi Guy,
> I for one would interested in hearing more about ERGO. Ok just found the
> websight http://www.swldx.com/ergo42.htm
> Let us know when the Racal version is ready. The screenshots look pretty
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> Sorry to report that I have not explored any changes to the IF roofing
> filters. I simply don't have enough spare time for experimenting, although
> it sounds like there could be some benefit. One of my Racals is an older
> model and goes down from time to time for various ailments. So at least
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> of my time is spent just keeping them running, and passing the BITE. My
most
> recent dilemma was an A-7 board (first lo) that went down while I was
> listening one night. Fortunately I had a spare A-7. I may have found the
> offending IC but didn't pursue sourcing a new one. Another project for a
> cold winter night.
> I will add the link for ERGOS to the links section at Yahoo.
> Thanks, Max
>
>
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>

126. RE: [Racal6790GM] Cool computer control

Yahoo group: Racal6790GM
Date: 2004-07-15 00:57:35 UTC
From: Guy Atkins
Topic: 108 Message: 126

Hi Max,

It indeed is great fun to dedicate some time solely to DXing and playing with the radio gear. I got hooked back in the mid-1980's and have gone on tropical band and trans-Pacific mediumwave DXpeditions 2 to 4 times per year since then. Beginning in 1990 my buddies and I discovered the enhancement of LF, MF, and lower HF signals that often happens at a coastal location; all our outings since then have been right at the seashore.

If you don't mind the download, you can see some pictures from our DXpeditions over the years and hear some of my best DX catches (in MP3 form) by downloading a PowerPoint presentation. It's called "DXing from the Left Coast: the Grayland DXpeditions in Sound and Pictures" and is found under the GRAYLAND, WA column at: http://www.dxing.info/dxpeditions/ There's also a separate version for Mac users.

These DXpeditions are not much more effort than packing up the family to go camping or on vacation. The location can be a campsite, an accomodating motel in the country or at the seashore, or any other rural site. Just don't forget the wire, headphones, and radios! As you'll see in the PowerPoint show, some of our group bring a lot more gear than others :^)

Guy

-----Original Message-----
From: maxhdrm2 [mailto:maxhdrm2@...]
Sent: Wednesday, July 14, 2004 3:32 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Cool computer control

Hello Guy,
And thanks for sharing the update with the group. I am sure there are plenty of
people would would like to try this software. It's got to be pretty cool to be able to go out
on an expedition for the sole purpose of monitoring the HF spectrum. I wish I had the time!
Thanks alot and I hope to try it soon.
Max
Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

127. Re: "Gary Wingerd's Personal Radio"???

Yahoo group: Racal6790GM
Date: 2004-07-15 16:19:00 UTC
From: Tom Adams
Topic: 121 Message: 127

Hi, Gary.

I dunno... chalk it up to my suspicious nature. <<grin>>

I suppose it could be seen as a tribute to your status as Racal Guru, but if folks on EBAY start advertising something as having the "Gary Wingerd Endorsement" to attract buyers, it might wind up hurting you if either (A) it's not true, or (B) something goes bad after the sale. Thought you might want to know about this particular item.

I've run into some WIERD people on EBAY, and I can see it as quite possible that some might come back to YOU to warrantee / fix a radio that you parted with long ago, just because it was advertised as one of your "specials".

BTW... when I bought my VLF optimized RA6790/GM from you, I didn't know you from Adam... but now, based on how happy I am with that rig, dropping your name in a possible deal DEFINITELY gets my attention! I suppose that my reasons for bringing it to your attention are selfish; it only takes getting burned once to turn off a valuable knowledge resource. I've seen it happen before.

73's,

Tom, W9LBB
Mahon Loomis Memorial Monitoring Station &
Irish Setter Retirement Home
Sun Prairie, Wisconsin

--- In Racal6790GM@yahoogroups.com, "gary wingerd" <gewingerd@n...> wrote:
> Tom,
>
> I put a bunch of time and money in that one and I kept it for quite sometime before I parted with it. So yes it was one of the many that I have owned in the last couple of years.
>
> Thanks,
> Gary
> ----- Original Message -----
> From: Tom Adams
> To: Racal6790GM@yahoogroups.com
> Sent: Tuesday, July 13, 2004 7:54 PM
> Subject: [Racal6790GM] "Gary Wingerd's Personal Radio"???
>
>
> Howdy, Gang.

>
> Ran into an EBAY item that I'm a bit suspicious of. His
presentation
> of the item has me curious tho...
>
> http://cgi.ebay.com/ws/eBayISAPI.dll?
> ViewItem&category=4673&item=5709247750&rd=1
>
> Hey, Gary... if you're watching this list, is this guy telling
the
> truth? Is this your personal hoss?
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> Tom, W9LBB
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> Racal6790GM-unsubscribe@yahoogroups.com
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> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

128. Re: [Racal6790GM] Re: "Gary Wingerd's Personal Radio"???

Yahoo group: Racal6790GM
Date: 2004-07-15 16:43:15 UTC
From: Stephan Walther Larsen
Topic: 121 Message: 128

On Thu, 15 Jul 2004 16:19:00 -0000, you wrote:

>BTW... when I bought my VLF optimized RA6790/GM from you,

hmm...Gary you still do these radios ? (With VLF options)

I have a RA6790/GM (with VLF eproms) Otherwise standard.

I may certainly like to buy one more as its a very very nice radio.

Stephan in Denmark

129. Re: [Racal6790GM] Re: "Gary Wingerd's Personal Radio"???

Yahoo group: Racal6790GM
Date: 2004-07-15 23:11:21 UTC
From: gary wingerd
Topic: 121 Message: 129

Tom,

The fellow that is selling the receiver on EBAY I have sold 2 receivers to and I know someone will be getting a good deal. He offered it back to me but I just spent my piggy bank on 8 receivers that I am now working on.
Starting next month I will be flooding the market with the 8 receivers I am now rebuilding, These will be a mixed blessing to some folks out there because 1 of them is going to be a TRUE VLF RECEIVER with all the bells, whistles and about $4000.00 worth of NEW filters. 1 may also have the 21.4 MHz option with a Signal Display Unit.

Thanks,
Gary
----- Original Message -----
From: Tom Adams
To: Racal6790GM@yahoogroups.com
Sent: Thursday, July 15, 2004 9:19 AM
Subject: [Racal6790GM] Re: "Gary Wingerd's Personal Radio"???

Hi, Gary.

I dunno... chalk it up to my suspicious nature. <<grin>>

I suppose it could be seen as a tribute to your status as Racal Guru, but if folks on EBAY start advertising something as having the "Gary Wingerd Endorsement" to attract buyers, it might wind up hurting you if either (A) it's not true, or (B) something goes bad after the sale. Thought you might want to know about this particular item.

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73's,

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quite sometime before I parted with it. So yes it was one of the many
that I have owned in the last couple of years.
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> Thanks,
> Gary
> ----- Original Message -----
> From: Tom Adams
> To: Racal6790GM@yahoogroups.com
> Sent: Tuesday, July 13, 2004 7:54 PM
> Subject: [Racal6790GM] "Gary Wingerd's Personal Radio"???
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>
> Howdy, Gang.
>
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> ViewItem&category=4673&item=5709247750&rd=1
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> Hey, Gary... if you're watching this list, is this guy telling
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> truth? Is this your personal hoss?
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> 73's,
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> Tom, W9LBB
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130. Re: [Racal6790GM] Re: "Gary Wingerd's Personal Radio"???

Yahoo group: Racal6790GM
Date: 2004-07-15 23:16:09 UTC
From: gary wingerd
Topic: 121 Message: 130

Stephan in Denmark,

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Thanks,
Gary
----- Original Message -----
From: Stephan Walther Larsen
To: Racal6790GM@yahoogroups.com
Sent: Thursday, July 15, 2004 9:43 AM
Subject: Re: [Racal6790GM] Re: "Gary Wingerd's Personal Radio"???

On Thu, 15 Jul 2004 16:19:00 -0000, you wrote:

>BTW... when I bought my VLF optimized RA6790/GM from you,

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Stephan in Denmark

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131. Re: "Gary Wingerd's Personal Radio"???

Yahoo group: Racal6790GM
Date: 2004-07-16 00:29:32 UTC
From: Tom Adams
Topic: 121 Message: 131

Hi, Gary.

>>1 may also have the 21.4 MHz option with a Signal Display Unit.<<

Oh, my!

I probably won't be able to afford it (I'm looking at a motorcycle),
but I sure wanna SEE this one!

T.

132. Mostek CPU

Yahoo group: Racal6790GM
Date: 2004-08-03 14:28:49 UTC
From: fail999
Topic: 132 Message: 132

Hi All,

Has any one, recently, found a source for Mostek MK3850 and 3853?

Yea I know they were discontinued long ago!

Thanks,
had@...

133. RE: [Racal6790GM] Mostek CPU

Yahoo group: Racal6790GM
Date: 2004-08-03 16:07:48 UTC
From: Carcia, Frank A. HS
Topic: 132 Message: 133

Try Rochester Electronics if Gary Wingerd doesn't have any.

From: fail999 [mailto:had@...]
Sent: Tuesday, August 03, 2004 10:29 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Mostek CPU

Hi All,

Has any one, recently, found a source for Mostek MK3850 and 3853?

Yea I know they were discontinued long ago!

Thanks,
had@...

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<http://us.adserver.yahoo.com/l?M=295196.4901138.6071305.3001176/D=groups/S=:HM/A=2128215/rand=443720922>

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134. Re: [Racal6790GM] Mostek CPU

Yahoo group: Racal6790GM
Date: 2004-08-03 19:30:03 UTC
From: gary wingerd
Topic: 132 Message: 134

Frank,

I have stock on both parts, they are $50.00 each and I cover the shipping in the USA. I purchased 25 each through a parts finder and they were not cheap. I have tested them so I know they are all working.

I also have stock on the 6402 interface chip for the RS232 board, these are $25.00 each.

Thanks,
Gary
----- Original Message -----
From: Carcia, Frank A. HS
To: 'Racal6790GM@yahoogroups.com'
Sent: Tuesday, August 03, 2004 9:07 AM
Subject: RE: [Racal6790GM] Mostek CPU

Try Rochester Electronics if Gary Wingerd doesn't have any.

From: fail999 [mailto:had@...m]
Sent: Tuesday, August 03, 2004 10:29 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Mostek CPU

Hi All,

Has any one, recently, found a source for Mostek MK3850 and 3853?

Yea I know they were discontinued long ago!

Thanks,
had@...

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135. RA6890 CPU Problems?

Yahoo group: Racal6790GM
Date: 2004-08-17 20:43:51 UTC
From: ajcorda
Topic: 135 Message: 135

Hi Guys!

I just picked up a RA6890 with some problems that
I'd like to get back into working condition. At first
inspection, the mode LCD was in bad shape.. bled to the
point where it shows nothing but a big black splotch. This
doesn't worry me since I believe I can order a replacement
display from Mr. Wingerd.

There does seem to be a significant problem with the CPU, though.
On the first power-up, the Freq. display came up all zeros. No
response to any button or dial changes. On subsequent power ups,
the Freq. display shows what appears to be random hex digits
(different every time). No response to BITE/reset (i.e. AM/Lock
putton press).

I've pulled the CPU board and checked the battery... seems to be
quite dead. No signs of external leakage, but a couple of traces
on the back of the PC board (obverse of battery location) show some
minor signs of corrosion... they ohm-out OK, though.

Can a dead (i.e. shorted) battery keep the CPU from booting?
I'm going to try replacing it with a battery holder and 2 AAA NiMH
batteries.

Any other suggestions as to what I might need to check? Any known
common failure modes on the CPU board?

Suggestions and comments would be greatly appreciated.

-Thanks!-
-al-
-acorda@...

136. Re: [Racal6790GM] RA6890 CPU Problems?

Yahoo group: Racal6790GM
Date: 2004-08-18 17:07:00 UTC
From: gary wingerd
Topic: 135 Message: 136

Here is some info on the A6A2 cards, I can repair them and I have new batteries!

A6A2 Troubleshooting

Error 14 BITE

Troubleshooting the A6A2 card, I had to replace the RAMS U7 & U8 5101L

All zeros on the front panel, A6A2U1 pin 1 no Clock output, replaced U1 and the board is repaired.

A6A2 Troubleshooting

Front panel all zeros A6A2U1 and A6A2U13 defective.

Front panel all zeros A6A2U1 defective.

Front panel all zeros A6A2R2 open.

Front panel all zeros A6A2U1 and A6A2Y1 defective.

Receiver intermittent Front Panel Crash and messed up display, Changed Interface chip A6A2U2 and installed new sockets for the software.

A6A2 Troubleshooting

Only Man, Long and Medium AGC working, Remote Key will not stay on A6A2U8 Ram Bad.

Front Panel all zero's replaced A6A2U10

A6A2 Troubleshooting Schematic Corrections

Figure 7-8 Table at bottom of page

+5 doesn't go to U7 per the Table at bottom of page.

+5 goes to U14 pin 21 and 24.

+15 U9 pin 1.

A6A2 Troubleshooting

The ground to more than 2/3 of the board is done by the BT1 Ground clad eyelet; if it is not there the board will not function.

7-9-2004

No ground for the board, IE: no clock, added ground wire and it works.

Bad set of RAM's on one board today.

A6U13 bad on another board today.

A6A2 Troubleshooting

Cleaning the board when battery has leaked? Baking soda and vinegar works to remove most of the acid that has interacted with the copper on the board.

I also use an ultrasonic cleaner with water to remove some of the acid.

Thanks,

Gary

----- Original Message -----
From: ajcorda
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, August 17, 2004 1:43 PM
Subject: [Racal6790GM] RA6890 CPU Problems?

Hi Guys!

I just picked up a RA6890 with some problems that
I'd like to get back into working condition. At first
inspection, the mode LCD was in bad shape.. bled to the
point where it shows nothing but a big black splotch. This
doesn't worry me since I believe I can order a replacement
display from Mr. Wingerd.

There does seem to be a significant problem with the CPU, though.
On the first power-up, the Freq. display came up all zeros. No
response to any button or dial changes. On subsequent power ups,
the Freq. display shows what appears to be random hex digits
(different every time). No response to BITE/reset (i.e. AM/Lock
putton press).

I've pulled the CPU board and checked the battery... seems to be
quite dead. No signs of external leakage, but a couple of traces
on the back of the PC board (obverse of battery location) show some
minor signs of corrosion... they ohm-out OK, though.

Can a dead (i.e. shorted) battery keep the CPU from booting?
I'm going to try replacing it with a battery holder and 2 AAA NiMH
batteries.

Any other suggestions as to what I might need to check? Any known
common failure modes on the CPU board?

Suggestions and comments would be greatly appreciated.

-Thanks!-
-al-
-acorda@...

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137. Re: [Racal6790GM] RA6890 CPU Problems?

Yahoo group: Racal6790GM
Date: 2004-08-18 17:15:52 UTC
From: gary wingerd
Topic: 135 Message: 137

This is something else that should be checked first before the A6A2 card is confirmed dead.

Troubleshooting The RACAL RA6790/GM Receiver

Start with the basic Microprocessor, Front Panel and Power Supply check. Make sure that the power is turned off. Unplug the following connectors:

W21 First Mixer A2

W22 Second Mixer A3

W13 First LO Synthesizer A7

W14 Second LO/BFO Synthesizer A8

W15 Main IF/AF A4

Remove the A6A1 Remote Interface Card if installed.

This only leaves the Power Supply A10, the Front Panel A9 and the Microprocessor A6A2 Card.

Turn the power on and monitor the Front Panel Assembly, make sure the Remote is not on the Front Panel Mode LCD and press each of the membrane switches to ensure their function. If the Front Panel is operating correctly then you can start plugging in each of the cables disconnected one by one and turn the power back on after each connection is made and then retest the Front Panel again each time. If the receiver Front Panel stops working after you have plug in one of the boards and turned on the power then that board will have a power supply cap problem on that board. The bad caps are easy to locate because they will produce a large amount of heat and may have a small hole in the cap, if you inspect each cap with an eye loupe you may see a small pin hole in the device. They will also measure very low resistance to ground.

Thanks,

Gary

----- Original Message -----
From: gary wingerd
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, August 18, 2004 10:07 AM
Subject: Re: [Racal6790GM] RA6890 CPU Problems?

Here is some info on the A6A2 cards, I can repair them and I have new batteries!

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Front panel all zeros A6A2U1 defective.

Front panel all zeros A6A2R2 open.

Front panel all zeros A6A2U1 and A6A2Y1 defective.

Receiver intermittent Front Panel Crash and messed up display, Changed Interface chip A6A2U2 and installed new sockets for the software.

A6A2 Troubleshooting

Only Man, Long and Medium AGC working, Remote Key will not stay on A6A2U8 Ram Bad.

Front Panel all zero's replaced A6A2U10

A6A2 Troubleshooting Schematic Corrections

Figure 7-8 Table at bottom of page

+5 doesn't go to U7 per the Table at bottom of page.

+5 goes to U14 pin 21 and 24.

+15 U9 pin 1.

A6A2 Troubleshooting

The ground to more than 2/3 of the board is done by the BT1 Ground clad eyelet; if it is not there the board will not function.

7-9-2004

No ground for the board, IE: no clock, added ground wire and it works.

Bad set of RAM's on one board today.

A6U13 bad on another board today.

A6A2 Troubleshooting

Cleaning the board when battery has leaked? Baking soda and vinegar works to remove most of the acid that has interacted with the copper on the board.

I also use an ultrasonic cleaner with water to remove some of the acid.

Thanks,

Gary

----- Original Message -----
From: ajcorda
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, August 17, 2004 1:43 PM
Subject: [Racal6790GM] RA6890 CPU Problems?

Hi Guys!

I just picked up a RA6890 with some problems that
I'd like to get back into working condition. At first
inspection, the mode LCD was in bad shape.. bled to the
point where it shows nothing but a big black splotch. This
doesn't worry me since I believe I can order a replacement
display from Mr. Wingerd.

There does seem to be a significant problem with the CPU, though.
On the first power-up, the Freq. display came up all zeros. No
response to any button or dial changes. On subsequent power ups,
the Freq. display shows what appears to be random hex digits
(different every time). No response to BITE/reset (i.e. AM/Lock
putton press).

I've pulled the CPU board and checked the battery... seems to be
quite dead. No signs of external leakage, but a couple of traces
on the back of the PC board (obverse of battery location) show some
minor signs of corrosion... they ohm-out OK, though.

Can a dead (i.e. shorted) battery keep the CPU from booting?
I'm going to try replacing it with a battery holder and 2 AAA NiMH
batteries.

Any other suggestions as to what I might need to check? Any known
common failure modes on the CPU board?

Suggestions and comments would be greatly appreciated.

-Thanks!-
-al-
-acorda@...

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138. Re: RA6890 CPU Problems?

Yahoo group: Racal6790GM
Date: 2004-08-18 18:17:02 UTC
From: ajcorda
Topic: 135 Message: 138

Thanks for the info! I'll give this a shot tonight
to see if I can narrow it down to just the CPU and
Front Panel boards. I had just "assumed" it was the
CPU, because of its non-responsiveness to front panel
keypresses... I should have known not to "Assume" anything ;-)

Thanks again for the help!

-al-
-acorda@...

--- In Racal6790GM@yahoogroups.com, "gary wingerd" <gewingerd@n...>
wrote:
> This is something else that should be checked first before the A6A2
card is confirmed dead.
>
>
>
> Troubleshooting The RACAL RA6790/GM Receiver
>
>
>
>
>
>
> Start with the basic Microprocessor, Front Panel and Power
Supply check. Make sure that the power is turned off. Unplug the
following connectors:
>
>
>
> W21 First Mixer A2
>
> W22 Second Mixer A3
>
> W13 First LO Synthesizer A7
>
> W14 Second LO/BFO Synthesizer A8
>
> W15 Main IF/AF A4
>
> Remove the A6A1 Remote Interface Card if installed.
>
>
>
> This only leaves the Power Supply A10, the Front Panel A9 and
the Microprocessor A6A2 Card.

>
>
>
> Turn the power on and monitor the Front Panel Assembly, make
sure the Remote is not on the Front Panel Mode LCD and press each of
the membrane switches to ensure their function. If the Front Panel is
operating correctly then you can start plugging in each of the cables
disconnected one by one and turn the power back on after each
connection is made and then retest the Front Panel again each time.
If the receiver Front Panel stops working after you have plug in one
of the boards and turned on the power then that board will have a
power supply cap problem on that board. The bad caps are easy to
locate because they will produce a large amount of heat and may have
a small hole in the cap, if you inspect each cap with an eye loupe
you may see a small pin hole in the device. They will also measure
very low resistance to ground.
>
>
>
> Thanks,
>
> Gary
>
> ----- Original Message -----
> From: gary wingerd
> To: Racal6790GM@yahoogroups.com
> Sent: Wednesday, August 18, 2004 10:07 AM
> Subject: Re: [Racal6790GM] RA6890 CPU Problems?
>
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> Here is some info on the A6A2 cards, I can repair them and I have
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> Front panel all zeros A6A2U1 and A6A2U13 defective.
>
>
>
> Front panel all zeros A6A2U1 defective.
>
>
>
> Front panel all zeros A6A2R2 open.
>
>
>
> Front panel all zeros A6A2U1 and A6A2Y1 defective.
>
>
>
> Receiver intermittent Front Panel Crash and messed up display,
Changed Interface chip A6A2U2 and installed new sockets for the
software.
>
>
>
> A6A2 Troubleshooting
>
> Only Man, Long and Medium AGC working, Remote Key will not stay
on A6A2U8 Ram Bad.
>
>
>
> Front Panel all zero's replaced A6A2U10
>
>
>
> A6A2 Troubleshooting Schematic Corrections
>
> Figure 7-8 Table at bottom of page
>
> +5 doesn't go to U7 per the Table at bottom of page.
>
> +5 goes to U14 pin 21 and 24.
>
> +15 U9 pin 1.
>
>
>
> A6A2 Troubleshooting
>

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>
> 7-9-2004
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> I also use an ultrasonic cleaner with water to remove some of the
acid.
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> Thanks,
>
> Gary
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> ----- Original Message -----
> From: ajcorda
> To: Racal6790GM@yahoogroups.com
> Sent: Tuesday, August 17, 2004 1:43 PM
> Subject: [Racal6790GM] RA6890 CPU Problems?
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> Hi Guys!
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> I just picked up a RA6890 with some problems that
> I'd like to get back into working condition. At first
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> point where it shows nothing but a big black splotch. This
> doesn't worry me since I believe I can order a replacement
> display from Mr. Wingerd.
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> There does seem to be a significant problem with the CPU,
though.
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> response to any button or dial changes. On subsequent power
ups,
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> (different every time). No response to BITE/reset (i.e. AM/Lock
> putton press).
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> I've pulled the CPU board and checked the battery... seems to be
> quite dead. No signs of external leakage, but a couple of traces
> on the back of the PC board (obverse of battery location) show
some
> minor signs of corrosion... they ohm-out OK, though.
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> Can a dead (i.e. shorted) battery keep the CPU from booting?
> I'm going to try replacing it with a battery holder and 2 AAA
NiMH
> batteries.
>
> Any other suggestions as to what I might need to check? Any
known
> common failure modes on the CPU board?
>
> Suggestions and comments would be greatly appreciated.
>
> -Thanks!-
> -al-
> -acorda@1...
>
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139. Re: RA6890 CPU Problems? (Update!)

Yahoo group: Racal6790GM
Date: 2004-08-19 18:47:23 UTC
From: ajcorda
Topic: 135 Message: 139

Good news!

Gary, I wanted to thank you for the advice, and let
everyone on the group know that this approach works
like a charm! It turns out that the CPU board (A6A2)
wasn't the problem at all! When I unplugged W21 (First
Mixer, A2) the unit returned to life!. Examination of
the A2 board revealed a _tiny_ erruption on surface of the
-15v Tantalum cap (C38). It turned out to be shorted!. As
to how this stopped the CPU from booting, as far as
I can determine, the short on the -15v supply must
have caused that part of the supply to shut down.
The CPU board schematics show that the -15v supply is
used by the CPU reset circuitry (it biases the base
and emitter of Q5) My guess is that lack of -15V caused
the reset input to the CPU (through Q5, Q6 and Q7) to
be continuously held low, preventing the CPU from booting.

I've got some 15uf 25v Tantalum caps on order. The original
spec in the manual calls for 20v, but after finding this,
I'll feel a bit safer upping the working voltage spec a little.
a 25v cap should still fit on the board, and give me a little
more overvoltage margin.

Once I get this patched up, I should be able to use the BITE
to see how much more work I need to do to revive this critter!

-Thanks again!-
-al-
-acorda@...

--- In Racal6790GM@yahoogroups.com, "ajcorda" <acorda@1...> wrote:
> Thanks for the info! I'll give this a shot tonight
> to see if I can narrow it down to just the CPU and
> Front Panel boards. I had just "assumed" it was the
> CPU, because of its non-responsiveness to front panel
> keypresses... I should have known not to "Assume" anything ;-)
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> Thanks again for the help!
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> -al-
> -acorda@1...
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>
> --- In Racal6790GM@yahoogroups.com, "gary wingerd" <gewingerd@n...>

> wrote:
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> disconnected one by one and turn the power back on after each
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> > Thanks,
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> > Gary
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> > ----- Original Message -----
> > From: gary wingerd
> > To: Racal6790GM@yahoogroups.com
> > Sent: Wednesday, August 18, 2004 10:07 AM
> > Subject: Re: [Racal6790GM] RA6890 CPU Problems?
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> works.
> >

> > Bad set of RAM's on one board today.
> >
> > A6U13 bad on another board today.
> >
> >
> >
> >
> >
> > A6A2 Troubleshooting
> >
> > Cleaning the board when battery has leaked? Baking soda and
> vinegar works to remove most of the acid that has interacted with
the
> copper on the board.
> >
> > I also use an ultrasonic cleaner with water to remove some of
the
> acid.
> >
> >
> >
> > Thanks,
> >
> > Gary
> >
> > ----- Original Message -----
> > From: ajcorda
> > To: Racal6790GM@yahoogroups.com
> > Sent: Tuesday, August 17, 2004 1:43 PM
> > Subject: [Racal6790GM] RA6890 CPU Problems?
> >
> >
> > Hi Guys!
> >
> > I just picked up a RA6890 with some problems that
> > I'd like to get back into working condition. At first
> > inspection, the mode LCD was in bad shape.. bled to the
> > point where it shows nothing but a big black splotch. This
> > doesn't worry me since I believe I can order a replacement
> > display from Mr. Wingerd.
> >
> > There does seem to be a significant problem with the CPU,
> though.
> > On the first power-up, the Freq. display came up all zeros. No
> > response to any button or dial changes. On subsequent power
> ups,
> > the Freq. display shows what appears to be random hex digits
> > (different every time). No response to BITE/reset (i.e.
AM/Lock
> > putton press).

> >
> > I've pulled the CPU board and checked the battery... seems to
be
> > quite dead. No signs of external leakage, but a couple of
traces
> > on the back of the PC board (obverse of battery location)
show
> some
> > minor signs of corrosion... they ohm-out OK, though.
> >
> > Can a dead (i.e. shorted) battery keep the CPU from booting?
> > I'm going to try replacing it with a battery holder and 2 AAA
> NiMH
> > batteries.
> >
> > Any other suggestions as to what I might need to check? Any
> known
> > common failure modes on the CPU board?
> >
> > Suggestions and comments would be greatly appreciated.
> >
> > -Thanks!-
> > -al-
> > -acorda@1...
> >
> >
> >
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> >
> > --
--
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> of Service.

140. RE: [Racal6790GM] Re: RA6890 CPU Problems? (Update!)

Yahoo group: Racal6790GM
Date: 2004-08-19 20:14:59 UTC
From: Carcia, Francis A HS
Topic: 135 Message: 140

Buy spares!

-----Original Message-----
From: ajcorda [mailto:acorda@...]
Sent: Thursday, August 19, 2004 2:47 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: RA6890 CPU Problems? (Update!)

Good news!

Gary, I wanted to thank you for the advice, and let
everyone on the group know that this approach works
like a charm! It turns out that the CPU board (A6A2)
wasn't the problem at all! When I unplugged W21 (First
Mixer, A2) the unit returned to life!. Examination of
the A2 board revealed a _tiny_ erruption on surface of the
-15v Tantalum cap (C38). It turned out to be shorted!. As
to how this stopped the CPU from booting, as far as
I can determine, the short on the -15v supply must
have caused that part of the supply to shut down.
The CPU board schematics show that the -15v supply is
used by the CPU reset circuitry (it biases the base
and emitter of Q5) My guess is that lack of -15V caused
the reset input to the CPU (through Q5, Q6 and Q7) to
be continuously held low, preventing the CPU from booting.

I've got some 15uf 25v Tantalum caps on order. The original
spec in the manual calls for 20v, but after finding this,
I'll feel a bit safer upping the working voltage spec a little.
a 25v cap should still fit on the board, and give me a little
more overvoltage margin.

Once I get this patched up, I should be able to use the BITE
to see how much more work I need to do to revive this critter!

-Thanks again!-
-al-
-acorda@...

--- In Racal6790GM@yahoogroups.com, "ajcorda" <acorda@1...> wrote:
> Thanks for the info! I'll give this a shot tonight
> to see if I can narrow it down to just the CPU and
> Front Panel boards. I had just "assumed" it was the
> CPU, because of its non-responsiveness to front panel
> keypresses... I should have known not to "Assume" anything ;-)
>
> Thanks again for the help!

>
> -al-
> -acorda@1...
>
>
>
> --- In Racal6790GM@yahoogroups.com, "gary wingerd" <gewingerd@n...>
> wrote:
> > This is something else that should be checked first before the
A6A2
> card is confirmed dead.
> >
> >
> >
> > Troubleshooting The RACAL RA6790/GM Receiver
> >
> >
> >
> >
> >
> > Start with the basic Microprocessor, Front Panel and Power
> Supply check. Make sure that the power is turned off. Unplug the
> following connectors:
> >
> >
> >
> > W21 First Mixer A2
> >
> > W22 Second Mixer A3
> >
> > W13 First LO Synthesizer A7
> >
> > W14 Second LO/BFO Synthesizer A8
> >
> > W15 Main IF/AF A4
> >
> > Remove the A6A1 Remote Interface Card if installed.
> >
> >
> >
> > This only leaves the Power Supply A10, the Front Panel A9 and
> the Microprocessor A6A2 Card.
> >
> >
> >
> > Turn the power on and monitor the Front Panel Assembly, make
> sure the Remote is not on the Front Panel Mode LCD and press each
of
> the membrane switches to ensure their function. If the Front Panel
is

> operating correctly then you can start plugging in each of the
cables
> disconnected one by one and turn the power back on after each
> connection is made and then retest the Front Panel again each time.
> If the receiver Front Panel stops working after you have plug in
one
> of the boards and turned on the power then that board will have a
> power supply cap problem on that board. The bad caps are easy to
> locate because they will produce a large amount of heat and may
have
> a small hole in the cap, if you inspect each cap with an eye loupe
> you may see a small pin hole in the device. They will also measure
> very low resistance to ground.
> >
> >
> >
> > Thanks,
> >
> > Gary
> >
> > ----- Original Message -----
> > From: gary wingerd
> > To: Racal6790GM@yahoogroups.com
> > Sent: Wednesday, August 18, 2004 10:07 AM
> > Subject: Re: [Racal6790GM] RA6890 CPU Problems?
> >
> >
> > Here is some info on the A6A2 cards, I can repair them and I
have
> new batteries!
> >
> >
> >
> > A6A2 Troubleshooting
> >
> > Error 14 BITE
> >
> >
> >
> > Troubleshooting the A6A2 card, I had to replace the RAMS U7 &
U8
> 5101L
> >
> >
> >
> > All zeros on the front panel, A6A2U1 pin 1 no Clock output,
> replaced U1 and the board is repaired.
> >
> >
> >

> > A6A2 Troubleshooting
> >
> > Front panel all zeros A6A2U1 and A6A2U13 defective.
> >
> >
> >
> > Front panel all zeros A6A2U1 defective.
> >
> >
> >
> > Front panel all zeros A6A2R2 open.
> >
> >
> >
> > Front panel all zeros A6A2U1 and A6A2Y1 defective.
> >
> >
> >
> > Receiver intermittent Front Panel Crash and messed up display,
> Changed Interface chip A6A2U2 and installed new sockets for the
> software.
> >
> >
> >
> > A6A2 Troubleshooting
> >
> > Only Man, Long and Medium AGC working, Remote Key will not stay
> on A6A2U8 Ram Bad.
> >
> >
> >
> > Front Panel all zero's replaced A6A2U10
> >
> >
> >
> > A6A2 Troubleshooting Schematic Corrections
> >
> > Figure 7-8 Table at bottom of page
> >
> > +5 doesn't go to U7 per the Table at bottom of page.
> >
> > +5 goes to U14 pin 21 and 24.
> >
> > +15 U9 pin 1.
> >
> >
> >
> > A6A2 Troubleshooting
> >
> > The ground to more than 2/3 of the board is done by the BT1

> Ground clad eyelet; if it is not there the board will not function.
> >
> > 7-9-2004
> >
> > No ground for the board, IE: no clock, added ground wire and it
> works.
> >
> > Bad set of RAM's on one board today.
> >
> > A6U13 bad on another board today.
> >
> >
> >
> >
> >
> > A6A2 Troubleshooting
> >
> > Cleaning the board when battery has leaked? Baking soda and
> vinegar works to remove most of the acid that has interacted with
the
> copper on the board.
> >
> > I also use an ultrasonic cleaner with water to remove some of
the
> acid.
> >
> >
> >
> > Thanks,
> >
> > Gary
> >
> > ----- Original Message -----
> > From: ajcorda
> > To: Racal6790GM@yahoogroups.com
> > Sent: Tuesday, August 17, 2004 1:43 PM
> > Subject: [Racal6790GM] RA6890 CPU Problems?
> >
> >
> > Hi Guys!
> >
> > I just picked up a RA6890 with some problems that
> > I'd like to get back into working condition. At first
> > inspection, the mode LCD was in bad shape.. bled to the
> > point where it shows nothing but a big black splotch. This
> > doesn't worry me since I believe I can order a replacement
> > display from Mr. Wingerd.
> >
> > There does seem to be a significant problem with the CPU,
> though.

> > On the first power-up, the Freq. display came up all zeros. No
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> ups,
> > the Freq. display shows what appears to be random hex digits
> > (different every time). No response to BITE/reset (i.e.
AM/Lock
> > putton press).
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> > I've pulled the CPU board and checked the battery... seems to
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> > quite dead. No signs of external leakage, but a couple of
traces
> > on the back of the PC board (obverse of battery location)
show
> some
> > minor signs of corrosion... they ohm-out OK, though.
> >
> > Can a dead (i.e. shorted) battery keep the CPU from booting?
> > I'm going to try replacing it with a battery holder and 2 AAA
> NiMH
> > batteries.
> >
> > Any other suggestions as to what I might need to check? Any
> known
> > common failure modes on the CPU board?
> >
> > Suggestions and comments would be greatly appreciated.
> >
> > -Thanks!-
> > -al-
> > -acorda@1...
> >
> >
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141. Re: RA6890 CPU Problems? (The saga continues... Was: Update!)

Yahoo group: Racal6790GM
Date: 2004-08-25 00:17:39 UTC
From: ajcorda
Topic: 135 Message: 141

--- In Racal6790GM@yahoogroups.com, "Carcia, Francis A HS"
<francis.carcia@h...> wrote:
> Buy spares!
>
...<deleted for brevity>...

No Kidding! I got the tantalums in for the A2 board, and powered the unit up. Bite works! now, Im getting an 02 error, followed by and 03 and 04. A quick check of the A7 board revealed yet another kentucky-fried tantalum (C94), This one actually appears to have burst into flame, as evidenced by the scorching of the board and a nearby resistor. On top of that, it seems to have destroyed the 6.8 uh filter choke in the 5v supply line (L1). I now have more tantalums and chokes on order.

oh well, step by step, inch by inch...

-al-

142. RA6890 A8 Board problems?

Yahoo group: Racal6790GM
Date: 2004-08-31 17:39:58 UTC
From: ajcorda
Topic: 142 Message: 142

I could use some advice from the group (again)!

I've fixed the problems with the A7 (First L.O. Synth) mentioned
in the previous posts... After installing and running BYTE,
I get the following errors:

02 error (2nd Local Osc. Synth. not locked, A8 board).

Continuing the Byte (with CW-LOCK keypresses), yields the
following further errors:

15 (No filters install, or synth. signal strength is out
of range --- A2 board?)

09 (Too many symmetrical filters installed)

At this point, I'm assuming that the 15 and 09 errors
are simply occuring because of a problem on the A2 board
(02 error, 2nd L.O. not working?)... and yes, there are
filters installed... 3 mechanical and 3 Xtal. They came
with the receiver, so I'm kinda assuming that they are
correctly installed).

Since the 02 error seems likely to be the cause of the
others, my focus at this point is on the A8 board...
I've checked the tantalums and they seem O.K. Visual
inspections reveals no signs of component or heat
damage, etc., so again I'm obliged to ask:

Does anyone knows of any common failure points on this board?

I'm going to check the A8 L.O. Outputs tonight with an Oscope, but
the tech. manual I have doesn't give any values or waveforms
for the testpoints on the board...

Any comments or suggestions would be greatly appreciated!

-Thanks!-
-al-
-acorda@...

143. Re: RA6890 A8 Board problems?

Yahoo group: Racal6790GM
Date: 2004-08-31 18:10:52 UTC
From: ajcorda
Topic: 142 Message: 143

BTW, Yes, I know it's a 6790, but I maintained the typo
in the title to keep the thread intact and synced with my
previous posts. Next time I promise
to proof-read a little better :)

-al-
-acorda@...

--- In Racal6790GM@yahoogroups.com, "ajcorda" <acorda@1...> wrote:
> I could use some advice from the group (again)!
>
> I've fixed the problems with the A7 (First L.O. Synth) mentioned
> in the previous posts... After installing and running BYTE,
> I get the following errors:
>
> 02 error (2nd Local Osc. Synth. not locked, A8 board).
>
> Continuing the Byte (with CW-LOCK keypresses), yields the
> following further errors:
>
> 15 (No filters install, or synth. signal strength is out
> of range --- A2 board?)
>
> 09 (Too many symmetrical filters installed)
>
> At this point, I'm assuming that the 15 and 09 errors
> are simply occuring because of a problem on the A2 board
> (02 error, 2nd L.O. not working?)... and yes, there are
> filters installed... 3 mechanical and 3 Xtal. They came
> with the receiver, so I'm kinda assuming that they are
> correctly installed).
>
> Since the 02 error seems likely to be the cause of the
> others, my focus at this point is on the A8 board...
> I've checked the tantalums and they seem O.K. Visual
> inspections reveals no signs of component or heat
> damage, etc., so again I'm obliged to ask:
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>
> I'm going to check the A8 L.O. Outputs tonight with an Oscope, but
> the tech. manual I have doesn't give any values or waveforms
> for the testpoints on the board...
>
> Any comments or suggestions would be greatly appreciated!

>
> -Thanks!-
> -al-
> -acorda@1...

144. Re: [Racal6790GM] Re: racal 6790 ISB-board

Yahoo group: Racal6790GM
Date: 2004-09-22 14:26:22 UTC
From: Martin Wolter
Topic: 60 Message: 144
Attachments: 1 described; binary payloads are missing from this source WARC

SchlichtHello Tom,
I just got this preamp on ebay, but I have some difficulties to install it in the right way.I would be more then happy, if you could give me some help, how to do it in a proper way without doing something wrong, my manuel seems to be the wrong one for the 6790gm I have, mybe it is a later modell.
Can you pse send me the e-mail to:
DL6KR@...
Thanks in advance for your help!!
kind regards Martin dl6kr

----- Original Message -----
From: Tom Adams
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, January 13, 2004 9:38 PM
Subject: [Racal6790GM] Re: racal 6790 ISB-board

Hello Martin.

As far as the preamp is concerned, I was able to upgrade my RA6793 by using the preamp from the RA1792. It appears to be the same unit electrically as used in the RA6790 series, but the mounting package is slightly different.

Apparently there are a LOT of RA1792s being parted out due to the microprocessor board problems endemic to them, so the preamps show up pretty regularly on EBAY.

The markings on the beast I used are A1 RF AMPL/LPF MODULE ST08076

73's,

Tom, W9LBB

145. Re: [Racal6790GM] Re: racal 6790 ISB-board

Yahoo group: Racal6790GM
Date: 2004-09-22 17:30:38 UTC
From: gary wingerd
Topic: 60 Message: 145
Attachments: 1 described; binary payloads are missing from this source WARC

SchlichtMartin,

Here is what you can get of the web
http://www.webex.net/~skywaves/commrx/RACAL/6790_RF_AMP/6790_RF_AMP.html

This should help.

Thanks,
Gary
----- Original Message -----
From: Martin Wolter
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, September 22, 2004 7:26 AM
Subject: Re: [Racal6790GM] Re: racal 6790 ISB-board

Hello Tom,
I just got this preamp on ebay, but I have some difficulties to install it in the right way.I would be more then happy, if you could give me some help, how to do it in a proper way without doing something wrong, my manuel seems to be the wrong one for the 6790gm I have, mybe it is a later modell.
Can you pse send me the e-mail to:
DL6KR@...
Thanks in advance for your help!!
kind regards Martin dl6kr

----- Original Message -----
From: Tom Adams
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, January 13, 2004 9:38 PM
Subject: [Racal6790GM] Re: racal 6790 ISB-board

Hello Martin.

As far as the preamp is concerned, I was able to upgrade my RA6793 by
using the preamp from the RA1792. It appears to be the
same unit electrically as used in the RA6790 series, but the mounting
package is slightly different.

Apparently there are a LOT of RA1792s being parted out due to the
microprocessor board problems endemic to them, so the preamps
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73's,

Tom, W9LBB

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146. IF Problem 6790GM

Yahoo group: Racal6790GM
Date: 2004-09-29 08:17:01 UTC
From: Nico
Topic: 146 Message: 146

Please tel me why the original racal filters
3.2 0.4 1.2 6.8 and 16 KHz in my 6790 wil
not detected automatic bij the 6790

byte test ok no errors .

whats wrong ??????.

147. Re: [Racal6790GM] IF Problem 6790GM

Yahoo group: Racal6790GM
Date: 2004-09-29 08:21:02 UTC
From: Per-Tore Aasestrand
Topic: 146 Message: 147

What filters are indicated after running the full BITE?
None?

Groeten,

Per-Tore
LA7NO

At 10:17 29.09.2004, you wrote:
>Please tel me why the original racal filters
>3.2 0.4 1.2 6.8 and 16 KHz in my 6790 wil
>not detected automatic bij the 6790
>
>byte test ok no errors .
>
>whats wrong ??????.
>
>
>
>
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+----------------------+------------------------------+
Per-Tore Aasestrand	E-mail : ptaa@...
P.O. Box 1708 Nordnes	Voice : + 47 - 55 32 32 35
N-5816 Bergen, Norway	Mobile : + 47 - 92 04 44 76
+----------------------+------------------------------+

148. Re: IF Problem 6790GM

Yahoo group: Racal6790GM
Date: 2004-09-29 08:50:18 UTC
From: Nico
Topic: 146 Message: 148

na test staat in display 20KHZ maar in am of cw is geen bandbreedte te
kiezen opvallend is ook dat het 3.2 filter niet meer goed werkt als alle filters
weer zijn geplaatst

--- In Racal6790GM@yahoogroups.com, Per-Tore Aasestrand <ptaa@i...>
wrote:
> What filters are indicated after running the full BITE?
> None?
>
> Groeten,
>
> Per-Tore
> LA7NO
>
> At 10:17 29.09.2004, you wrote:
> >Please tel me why the original racal filters
> >3.2 0.4 1.2 6.8 and 16 KHz in my 6790 wil
> >not detected automatic bij the 6790
> >
> >byte test ok no errors .
> >
> >whats wrong ??????.
> >
> >
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> >
> >
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> +-----------------------+------------------------------+
> | Per-Tore Aasestrand | E-mail : ptaa@i... |
> | P.O. Box 1708 Nordnes | Voice : + 47 - 55 32 32 35 |
> | N-5816 Bergen, Norway | Mobile : + 47 - 92 04 44 76 |
> +-----------------------+------------------------------+

149. Re: IF Problem 6790GM

Yahoo group: Racal6790GM
Date: 2004-09-29 12:50:23 UTC
From: Nico
Topic: 146 Message: 149

sorry do you speak dutch "de groeten"

No filters detected after running byte test just 20khz on the display
bw1 to bw5 not operational.....

--- In Racal6790GM@yahoogroups.com, Per-Tore Aasestrand <ptaa@i...>
wrote:
> What filters are indicated after running the full BITE?
> None?
>
> Groeten,
>
> Per-Tore
> LA7NO
>
> At 10:17 29.09.2004, you wrote:
> >Please tel me why the original racal filters
> >3.2 0.4 1.2 6.8 and 16 KHz in my 6790 wil
> >not detected automatic bij the 6790
> >
> >byte test ok no errors .
> >
> >whats wrong ??????.
> >
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> +----------------------+------------------------------+
> | Per-Tore Aasestrand | E-mail : ptaa@i... |
> | P.O. Box 1708 Nordnes | Voice : + 47 - 55 32 32 35 |
> | N-5816 Bergen, Norway | Mobile : + 47 - 92 04 44 76 |
> +----------------------+------------------------------+

150. RE: [Racal6790GM] Re: IF Problem 6790GM

Yahoo group: Racal6790GM
Date: 2004-09-29 13:01:21 UTC
From: Carcia, Francis A HS
Topic: 146 Message: 150

Sounds like the 20 KHz filter is stuck on so bite only sees that bandwidth.
I just found a problem
with one of my RA6830s where the 1 KHz filter was on all the time in
parallel with the other filter selected.
Bite passes but the 3 and 6 KHz filters showed deep pass band ripple having
the second filter in parallel.
The level shifter chip 74C906 had one output stuck on. I think the 6790 uses
the same part to interface the
5 volt logic to 15 volt diode switching logic around the filters. Remove the
filter or jumper on the board to verify
this. Then run bite again. fc

-----Original Message-----
From: Nico [mailto:ik00ke@...]
Sent: Wednesday, September 29, 2004 8:50 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: IF Problem 6790GM

sorry do you speak dutch "de groeten"

No filters detected after running byte test just 20khz on the display
bw1 to bw5 not operational.....

--- In Racal6790GM@yahoogroups.com, Per-Tore Aasestrand <ptaa@i...>
wrote:
> What filters are indicated after running the full BITE?
> None?
>
> Groeten,
>
> Per-Tore
> LA7NO
>
> At 10:17 29.09.2004, you wrote:
> >Please tel me why the original racal filters
> >3.2 0.4 1.2 6.8 and 16 KHz in my 6790 wil
> >not detected automatic bij the 6790
> >
> >byte test ok no errors .
> >
> >whats wrong ??????.
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> +----------------------+------------------------------+
> | Per-Tore Aasestrand | E-mail : ptaa@i... |
> | P.O. Box 1708 Nordnes | Voice : + 47 - 55 32 32 35 |
> | N-5816 Bergen, Norway | Mobile : + 47 - 92 04 44 76 |
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<http://us.adserver.yahoo.com/l?M=295196.4901138.6071305.3001176/D=groups/S=:HM/A=2128215/rand=734067707>

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<http://docs.yahoo.com/info/terms/> .

151. Re: [Racal6790GM] Re: IF Problem 6790GM

Yahoo group: Racal6790GM
Date: 2004-09-29 14:12:22 UTC
From: Per-Tore Aasestrand
Topic: 146 Message: 151

Hoi,

At 14:50 29.09.2004, you wrote:
>sorry do you speak dutch "de groeten"

Jazeker!
Maar ik heb je berichten pas nu ontvangen.
En ik heb ook gezien dat een andere een goed antwoord heb gegeven.

Success ermee!

Groeten,

Per-Tore
LA7NO

>No filters detected after running byte test just 20khz on the display
>bw1 to bw5 not operational.....
>
>
>
>--- In Racal6790GM@yahoogroups.com, Per-Tore Aasestrand <ptaa@i...>
>wrote:
> > What filters are indicated after running the full BITE?
> > None?
> >
> > Groeten,
> >
> > Per-Tore
> > LA7NO
> >
> > At 10:17 29.09.2004, you wrote:
> > >Please tel me why the original racal filters
> > >3.2 0.4 1.2 6.8 and 16 KHz in my 6790 wil
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> > >whats wrong ??????.
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> > +----------------------+------------------------------+
> > | Per-Tore Aasestrand | E-mail : ptaa@i... |
> > | P.O. Box 1708 Nordnes | Voice : + 47 - 55 32 32 35 |
> > | N-5816 Bergen, Norway | Mobile : + 47 - 92 04 44 76 |
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Per-Tore Aasestrand	E-mail : ptaa@...
P.O. Box 1708 Nordnes	Voice : + 47 - 55 32 32 35
N-5816 Bergen, Norway	Mobile : + 47 - 92 04 44 76
+----------------------+------------------------------+

152. Re: IF Problem 6790GM

Yahoo group: Racal6790GM
Date: 2004-09-29 17:34:37 UTC
From: Nico
Topic: 146 Message: 152

neen nog steeds troubles !!!!!!!!!!!!

--- In Racal6790GM@yahoogroups.com, Per-Tore Aasestrand <ptaa@i...>
wrote:
> Hoi,
>
> At 14:50 29.09.2004, you wrote:
> >sorry do you speak dutch "de groeten"
>
> Jazeker!
> Maar ik heb je berichten pas nu ontvangen.
> En ik heb ook gezien dat een andere een goed antwoord heb gegeven.
>
> Success ermee!
>
> Groeten,
>
> Per-Tore
> LA7NO
>
>
> >No filters detected after running byte test just 20khz on the display
> >bw1 to bw5 not operational.....
> >
> >
> >
> >--- In Racal6790GM@yahoogroups.com, Per-Tore Aasestrand
<ptaa@i...>
> >wrote:
> > > What filters are indicated after running the full BITE?
> > > None?
> > >
> > > Groeten,
> > >
> > > Per-Tore
> > > LA7NO
> > >
> > > At 10:17 29.09.2004, you wrote:
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> > > >
> > > >whats wrong ??????.

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> > > | P.O. Box 1708 Nordnes | Voice : + 47 - 55 32 32 35 |
> > > | N-5816 Bergen, Norway | Mobile : + 47 - 92 04 44 76 |
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> | P.O. Box 1708 Nordnes | Voice : + 47 - 55 32 32 35 |
> | N-5816 Bergen, Norway | Mobile : + 47 - 92 04 44 76 |
> +----------------------+-----------------------------+

153. Re: IF Problem 6790GM

Yahoo group: Racal6790GM
Date: 2004-09-29 17:35:01 UTC
From: Nico
Topic: 146 Message: 153

neen nog steeds troubles !!!!!!!!!!!!

--- In Racal6790GM@yahoogroups.com, Per-Tore Aasestrand <ptaa@i...>
wrote:
> Hoi,
>
> At 14:50 29.09.2004, you wrote:
> >sorry do you speak dutch "de groeten"
>
> Jazeker!
> Maar ik heb je berichten pas nu ontvangen.
> En ik heb ook gezien dat een andere een goed antwoord heb gegeven.
>
> Success ermee!
>
> Groeten,
>
> Per-Tore
> LA7NO
>
>
> >No filters detected after running byte test just 20khz on the display
> >bw1 to bw5 not operational.....
> >
> >
> >
> >--- In Racal6790GM@yahoogroups.com, Per-Tore Aasestrand
<ptaa@i...>
> >wrote:
> > > What filters are indicated after running the full BITE?
> > > None?
> > >
> > > Groeten,
> > >
> > > Per-Tore
> > > LA7NO
> > >
> > > At 10:17 29.09.2004, you wrote:
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> > > >3.2 0.4 1.2 6.8 and 16 KHz in my 6790 wil
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> > > | P.O. Box 1708 Nordnes | Voice : + 47 - 55 32 32 35 |
> > > | N-5816 Bergen, Norway | Mobile : + 47 - 92 04 44 76 |
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> | P.O. Box 1708 Nordnes | Voice : + 47 - 55 32 32 35 |
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> +----------------------+-----------------------------+

154. hex files

Yahoo group: Racal6790GM
Date: 2004-10-02 13:42:32 UTC
From: Nico
Topic: 154 Message: 154

Are there hex files available for the eproms on the a6a2 board

155. hex file 2

Yahoo group: Racal6790GM
Date: 2004-10-03 11:09:45 UTC
From: Nico
Topic: 155 Message: 155

Is it possible to get the hex files for the 3 eproms on the A6A2 board

156. Re: [Racal6790GM] Re: IF Problem 6790GM

Yahoo group: Racal6790GM
Date: 2004-10-04 00:38:04 UTC
From: gary wingerd
Topic: 146 Message: 156

Just got back from vacation.

The problem could be with the Audio out on the A4, Do you here tones when it is testing the filters during BITE (no audio no filters detected). The most likely problem is on the A4 card A4U21, this sets the 10 volts for the DAC during BITE, disconnect the input cable at J1 to the A4 card and monitor the voltage at A4TP9 & ground. Unit in AGC SHORT MAN off, adjust A4R119 for 10 VDC at A4TP9.

A4 Troubleshooting

Unit has Error 15 while running BITE, Bad U21 (10 Volt Reference is 13 volts.).

Unit has Error 15 & 09 while running BITE, Display AF several bars at all times, this would cause the BITE not to run and the filters would not be detected, Bad A4U21 AD7524 (10 Volt Reference is 13 volts.).

Error 15 First mixer low in gain by 45 dB, normal output +2 to -4 dB, Replace the A2 card.

Error 15

A4 card will not run BITE on the filters; TP9 AGC Short J1 disconnected gives 2.9 VDC. At U24 Pin 9 resistance is only 50 K Ohms, normal resistance is 3.8 M Ohms = A4U21 BAD (AD7524 pin 16).

A4 card runs Error 15 when running BITE, TP9 only 8.67 volts (No signal, AGC Short, Align R119 to 10 volts). Checked +15C VDC on board and only 10.87, this was caused by R133 WRONG Value 100 ohms instead of 10 ohms.

ERROR 15, 16, 08, 11, 06 After Alignment

A4 card no IF control from front panel, this was caused by A4U13 driver to A4U3 causing input to U3 pin 10 not to be controlled at all, in other words both parts of U3 were selected at the same time, this would cause the voltage to be 9.6 to 10 volts only!

ERROR 15, 33, 34, 35, 36 &37 (all 7 filters installed)

A4 card TP9 only 8.7 VDC, A4U21 (AD7524) Bad. This would also cause the AF Meter to Blast full scale or nothing. In order for the filters to be detected during BITE the A4U21 must send the proper info to the Micro and front panel.

Error Fault Light On When in CW Mode

Unit has Fault light on when in CW, this problem was caused by the A9U61 pin 13 IC Bad (this is the select line for the BFO, unit had no resistance to ground most units are 3.8 Meg ohm).

Thanks,

Gary

----- Original Message -----
From: Carcia, Francis A HS
To: 'Racal6790GM@yahoogroups.com'
Sent: Wednesday, September 29, 2004 6:01 AM
Subject: RE: [Racal6790GM] Re: IF Problem 6790GM

Sounds like the 20 KHz filter is stuck on so bite only sees that bandwidth. I just found a problem
with one of my RA6830s where the 1 KHz filter was on all the time in parallel with the other filter selected.
Bite passes but the 3 and 6 KHz filters showed deep pass band ripple having the second filter in parallel.
The level shifter chip 74C906 had one output stuck on. I think the 6790 uses the same part to interface the
5 volt logic to 15 volt diode switching logic around the filters. Remove the filter or jumper on the board to verify
this. Then run bite again. fc
-----Original Message-----
From: Nico [mailto:ik00ke@...]
Sent: Wednesday, September 29, 2004 8:50 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: IF Problem 6790GM

sorry do you speak dutch "de groeten"

No filters detected after running byte test just 20khz on the display
bw1 to bw5 not operational.....

--- In Racal6790GM@yahoogroups.com, Per-Tore Aasestrand <ptaa@i...>
wrote:
> What filters are indicated after running the full BITE?
> None?
>
> Groeten,
>
> Per-Tore
> LA7NO
>
> At 10:17 29.09.2004, you wrote:
> >Please tel me why the original racal filters
> >3.2 0.4 1.2 6.8 and 16 KHz in my 6790 wil
> >not detected automatic bij the 6790
> >
> >byte test ok no errors .
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> >whats wrong ??????.
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157. if filter problem

Yahoo group: Racal6790GM
Date: 2004-10-05 10:01:18 UTC
From: Nico
Topic: 157 Message: 157

Hi Gary

Thanks for Troubleshooting information about the if filter problems i have

With al the connections connected on the A4 board and all filters installed
and starting byte I here audio and the sound of switching filters the results
are no errors and no filters found ?????

At this moment the problems are not resolved its hard to find
the components on the A4 board without a component board
layout of the A4 board to locate the resistors .

First am looking for a component board layout of the A4 board
not available on the internet .

I would like to have all the TP values on the A4 board .
can't find them on de schematics I have.

Thanks Nico

158. A-4 parts location

Yahoo group: Racal6790GM
Date: 2004-10-05 13:01:39 UTC
From: maxhdrm2
Topic: 158 Message: 158

There is a diagram in section 6 page 6-24 figure 6-12 that details parts location for the a-4. You can download it from the files section from this news group's home page.
I hope this helps!
Max

159. help part6 of manual

Yahoo group: Racal6790GM
Date: 2004-10-07 08:03:14 UTC
From: Nico
Topic: 159 Message: 159

I download part 6 of the manual but I cant read the numbering of the components on the A4 board is there someone who have a high resolution copy of this part..... ???????

160. help A4 board resistor location numbers !!!!!!!!!

Yahoo group: Racal6790GM
Date: 2004-10-10 10:35:41 UTC
From: Nico
Topic: 160 Message: 160

Hi all I am looking for a good component layout of the A4 board the one in the Files of this group is not sharp enough to read the resistor location numbers

Is there a better one by one of the members

Thanks

Nico

161. RE: [Racal6790GM] help A4 board resistor location numbers !!!!!!!!!

Yahoo group: Racal6790GM
Date: 2004-10-10 14:38:38 UTC
From: Guy Atkins
Topic: 160 Message: 161

Nico, have you tried the schematic pages that are posted at the Premium-RX
web site?

http://kahuna.sdsu.edu/~mechtron/PremRxPage/racal_6790.htm

73,

Guy

-----Original Message-----
From: Nico [mailto:ik00ke@...]
Sent: Sunday, October 10, 2004 3:36 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] help A4 board resistor location numbers !!!!!!!!!

Hi all I am looking for a good component layout of the A4 board the one
in the Files of this group is not sharp enough to read the resistor
location
numbers

Is there a better one by one of the members

Thanks

Nico

162. Re: help A4 board resistor location numbers !!!!!!!!!

Yahoo group: Racal6790GM
Date: 2004-10-10 16:07:58 UTC
From: Nico
Topic: 160 Message: 162

Nope the schematics on the premium RX page are exactly the same

--- In Racal6790GM@yahoogroups.com, "Guy Atkins" <dx@g...> wrote:
> Nico, have you tried the schematic pages that are posted at the
Premium-RX
> web site?
>
> http://kahuna.sdsu.edu/~mechtron/PremRxPage/racal_6790.htm
>
> 73,
>
> Guy
>
>
> -----Original Message-----
> From: Nico [mailto:ik00ke@y...]
> Sent: Sunday, October 10, 2004 3:36 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] help A4 board resistor location numbers !!!!!!!!!
>
>
>
> Hi all I am looking for a good component layout of the A4 board the one
> in the Files of this group is not sharp enough to read the resistor
> location
> numbers
>
> Is there a better one by one of the members
>
> Thanks
>
> Nico

163. RE: [Racal6790GM] Re: help A4 board resistor location numbers !!!!!!!!!

Yahoo group: Racal6790GM
Date: 2004-10-10 16:22:39 UTC
From: Guy Atkins
Topic: 160 Message: 163

Nico,

This afternoon I'll try to do a high-quality scan of the A4 board page(s)
from my original manual and email it to you.

73,

Guy

-----Original Message-----
From: Nico [mailto:ik00ke@...]
Sent: Sunday, October 10, 2004 9:08 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: help A4 board resistor location numbers
!!!!!!!!!

Nope the schematics on the premium RX page are exactly the same

--- In Racal6790GM@yahoogroups.com, "Guy Atkins" <dx@g...> wrote:
> Nico, have you tried the schematic pages that are posted at the
Premium-RX
> web site?
>
> http://kahuna.sdsu.edu/~mechtron/PremRxPage/racal_6790.htm
>
> 73,
>
> Guy
>
>
> -----Original Message-----
> From: Nico [mailto:ik00ke@y...]
> Sent: Sunday, October 10, 2004 3:36 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] help A4 board resistor location numbers !!!!!!!!!
>
>
>
> Hi all I am looking for a good component layout of the A4 board the
one
> in the Files of this group is not sharp enough to read the
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> location
> numbers
>
> Is there a better one by one of the members

>
> Thanks
>
> Nico

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164. Re: [Racal6790GM] Re: help A4 board resistor location numbers !!!!!!!!!

Yahoo group: Racal6790GM
Date: 2004-10-10 19:55:12 UTC
From: gary wingerd
Topic: 160 Message: 164

Nico & Guy

I have a size "D" Drawing in the shop, I may be able to get it copied if you need it.

Nico which resistors are you interested in knowing (the AGC Resistors or something else).

Thanks,
Gary
----- Original Message -----
From: Guy Atkins
To: Racal6790GM@yahoogroups.com
Sent: Sunday, October 10, 2004 9:22 AM
Subject: RE: [Racal6790GM] Re: help A4 board resistor location numbers !!!!!!!!!

Nico,

This afternoon I'll try to do a high-quality scan of the A4 board page(s) from my original manual and email it to you.

73,

Guy

-----Original Message-----
From: Nico [mailto:ik00ke@...]
Sent: Sunday, October 10, 2004 9:08 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: help A4 board resistor location numbers !!!!!!!!!

Nope the schematics on the premium RX page are exactly the same

--- In Racal6790GM@yahoogroups.com, "Guy Atkins" <dx@g...> wrote:
> Nico, have you tried the schematic pages that are posted at the
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> web site?
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> http://kahuna.sdsu.edu/~mechtron/PremRxPage/racal_6790.htm
>
> 73,
>
> Guy
>
>
> -----Original Message-----
> From: Nico [mailto:ik00ke@y...]
> Sent: Sunday, October 10, 2004 3:36 AM
> To: Racal6790GM@yahoogroups.com

> Subject: [Racal6790GM] help A4 board resistor location numbers !!!!!!!!!
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>
>
> Hi all I am looking for a good component layout of the A4 board the one
> in the Files of this group is not sharp enough to read the resistor
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> Is there a better one by one of the members
>
> Thanks
>
> Nico

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165. Re: help A4 board resistor location numbers !!!!!!!!!

Yahoo group: Racal6790GM
Date: 2004-10-10 16:59:37 UTC
From: Nico
Topic: 160 Message: 165

Hi

That will be nice Guy

But send the scans to the following email adres there is enough file space
to store them . n.v.t@...

I think it will be handy to store them allso on the RACAL6790GM file section

Thanks Guy !!!!!!

--- In Racal6790GM@yahoogroups.com, "Guy Atkins" <dx@g...> wrote:
> Nico,
>
> This afternoon I'll try to do a high-quality scan of the A4 board page(s)
> from my original manual and email it to you.
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>
> Guy
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> -----Original Message-----
> From: Nico [mailto:ik00ke@y...]
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> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Re: help A4 board resistor location numbers
> !!!!!!!!!
>
>
>
> Nope the schematics on the premium RX page are exactly the same
>
>
> --- In Racal6790GM@yahoogroups.com, "Guy Atkins" <dx@g...> wrote:
> > Nico, have you tried the schematic pages that are posted at the
> Premium-RX
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> >
> > http://kahuna.sdsu.edu/~mechtron/PremRxPage/racal_6790.htm
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> > From: Nico [mailto:ik00ke@y...]
> > Sent: Sunday, October 10, 2004 3:36 AM
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166. Re: [Racal6790GM] Re: help A4 board resistor location numbers !!!!!!!!!

Yahoo group: Racal6790GM
Date: 2004-10-10 19:26:42 UTC
From: nico van tienen
Topic: 160 Message: 166

Gary

Guy wil make some scans for me but perhaps you wil put
your scans on de files list in the group then
everybody can use them most of the schematics are
readable as far as I know only the A4 board components
locations are badly readable.

By the way is it possible to get the 3 hex files of
the A6A2 board eproms so that I program them by
myself

thanks Nico

--- gary wingerd <gewingerd@...> wrote:

> Nico & Guy
>
> I have a size "D" Drawing in the shop, I may be
> able to get it copied if you need it.
>
> Nico which resistors are you interested in knowing (
> the AGC Resistors or something else).
>
> Thanks,
> Gary
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> To: Racal6790GM@yahoogroups.com
> Sent: Sunday, October 10, 2004 9:22 AM
> Subject: RE: [Racal6790GM] Re: help A4 board
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> Nico,
>
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> 73,
>
> Guy
>
> -----Original Message-----
> From: Nico [mailto:ik00ke@...]

> Sent: Sunday, October 10, 2004 9:08 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Re: help A4 board
> resistor location numbers !!!!!!!!!
>
>
>
> Nope the schematics on the premium RX page are
> exactly the same
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>
> --- In Racal6790GM@yahoogroups.com, "Guy Atkins"
> <dx@g...> wrote:
> > Nico, have you tried the schematic pages that
> are posted at the
> Premium-RX
> > web site?
> >
> >
>
http://kahuna.sdsu.edu/~mechtron/PremRxPage/racal_6790.htm
> >
> > 73,
> >
> > Guy
> >
> >
> > -----Original Message-----
> > From: Nico [mailto:ik00ke@y...]
> > Sent: Sunday, October 10, 2004 3:36 AM
> > To: Racal6790GM@yahoogroups.com
> > Subject: [Racal6790GM] help A4 board resistor
> location numbers !!!!!!!!!
> >
> >
> >
> > Hi all I am looking for a good component
> layout of the A4 board the one
> > in the Files of this group is not sharp
> enough to read the resistor
> > location
> > numbers
> >
> > Is there a better one by one of the members
> >
> > Thanks
> >
> > Nico
>
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167. Re: [Racal6790GM] Re: help A4 board resistor location numbers !!!!!!!!!

Yahoo group: Racal6790GM
Date: 2004-10-11 00:14:09 UTC
From: gewingerd
Topic: 160 Message: 167

Nico

The HEX Files are still owned by RACAL (THALES) and they won't sell them.

Thanks,
Gary
----- Original Message -----
From: nico van tienen
To: Racal6790GM@yahoogroups.com
Sent: Sunday, October 10, 2004 12:26 PM
Subject: Re: [Racal6790GM] Re: help A4 board resistor location numbers !!!!!!!!!

Gary

Guy wil make some scans for me but perhaps you wil put
your scans on de files list in the group then
everybody can use them most of the schematics are
readable as far as I know only the A4 board components
locations are badly readable.

By the way is it possible to get the 3 hex files of
the A6A2 board eproms so that I program them by
myself

thanks Nico

--- gary wingerd <gewingerd@...> wrote:

> Nico & Guy
>
> I have a size "D" Drawing in the shop, I may be
> able to get it copied if you need it.
>
> Nico which resistors are you interested in knowing (
> the AGC Resistors or something else).
>
> Thanks,
> Gary
> ----- Original Message -----
> From: Guy Atkins
> To: Racal6790GM@yahoogroups.com
> Sent: Sunday, October 10, 2004 9:22 AM
> Subject: RE: [Racal6790GM] Re: help A4 board
> resistor location numbers !!!!!!!!!
>
>
> Nico,

>
> This afternoon I'll try to do a high-quality scan
> of the A4 board page(s) from my original manual and
> email it to you.
>
> 73,
>
> Guy
>
> -----Original Message-----
> From: Nico [mailto:ik00ke@...]
> Sent: Sunday, October 10, 2004 9:08 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Re: help A4 board
> resistor location numbers !!!!!!!!!
>
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> Nope the schematics on the premium RX page are
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> --- In Racal6790GM@yahoogroups.com, "Guy Atkins"
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http://kahuna.sdsu.edu/~mechtron/PremRxPage/racal_6790.htm
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> > Guy
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> > Sent: Sunday, October 10, 2004 3:36 AM
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> >
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> > in the Files of this group is not sharp

> enough to read the resistor
> > location
> > numbers
> >
> > Is there a better one by one of the members
> >
> > Thanks
> >
> > Nico
>
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168. New file uploaded to Racal6790GM

Yahoo group: Racal6790GM
Date: 2004-10-11 04:30:57 UTC
From: Racal6790GM@yahoogroups.com
Topic: 168 Message: 168

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the Racal6790GM
group.

File : /RA6790_A4.zip
Uploaded by : thinkdx <dx@...>
Description : RA6790GM A4 Board Schematics in PDF Form

You can access this file at the URL:
http://groups.yahoo.com/group/Racal6790GM/files/RA6790_A4.zip

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

thinkdx <dx@...>

169. Re: help A4 board resistor location numbers !!!!!!!!!

Yahoo group: Racal6790GM
Date: 2004-10-11 08:56:55 UTC
From: Nico
Topic: 160 Message: 169

Hi Gary

Sorry for my bad english Gary thist is the reason for misunderstandig
I need A Readable Figure 6-12 Component location A4. page 6-24

About the latest firmware of the eproms how to get them here
because the version i have is not working properly with the remote
software the eproms on the A6A2 board are version
(2.2)L4 (2.2)L2 and (2.2)L0.

Thanks Nico

-- In Racal6790GM@yahoogroups.com, "gewingerd" <gewingerd@n...>
wrote:
> Nico
>
> The HEX Files are still owned by RACAL (THALES) and they won't sell
them.
>
> Thanks,
> Gary
> ----- Original Message -----
> From: nico van tienen
> To: Racal6790GM@yahoogroups.com
> Sent: Sunday, October 10, 2004 12:26 PM
> Subject: Re: [Racal6790GM] Re: help A4 board resistor location numbers
!!!!!!!!!
>
>
> Gary
>
> Guy wil make some scans for me but perhaps you wil put
> your scans on de files list in the group then
> everybody can use them most of the schematics are
> readable as far as I know only the A4 board components
> locations are badly readable.
>
> By the way is it possible to get the 3 hex files of
> the A6A2 board eproms so that I program them by
> myself
>
> thanks Nico
>
>
> --- gary wingerd <gewingerd@n...> wrote:
>

> > Nico & Guy
> >
> > I have a size "D" Drawing in the shop, I may be
> > able to get it copied if you need it.
> >
> > Nico which resistors are you interested in knowing (
> > the AGC Resistors or something else).
> >
> > Thanks,
> > Gary
> > ----- Original Message -----
> > From: Guy Atkins
> > To: Racal6790GM@yahoogroups.com
> > Sent: Sunday, October 10, 2004 9:22 AM
> > Subject: RE: [Racal6790GM] Re: help A4 board
> > resistor location numbers !!!!!!!!!
> >
> >
> > Nico,
> >
> > This afternoon I'll try to do a high-quality scan
> > of the A4 board page(s) from my original manual and
> > email it to you.
> >
> > 73,
> >
> > Guy
> >
> > -----Original Message-----
> > From: Nico [mailto:ik00ke@y...]
> > Sent: Sunday, October 10, 2004 9:08 AM
> > To: Racal6790GM@yahoogroups.com
> > Subject: [Racal6790GM] Re: help A4 board
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> > exactly the same
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> >
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> > > Nico, have you tried the schematic pages that
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> > > web site?
> > >
> > >
> >

> http://kahuna.sdsu.edu/~mechtron/PremRxPage/racal_6790.htm
> > >
> > > 73,
> > >
> > > Guy
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> > > From: Nico [mailto:ik00ke@y...]
> > > Sent: Sunday, October 10, 2004 3:36 AM
> > > To: Racal6790GM@yahoogroups.com
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> > layout of the A4 board the one
> > > in the Files of this group is not sharp
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> > > location
> > > numbers
> > >
> > > Is there a better one by one of the members
> > >
> > > Thanks
> > >
> > > Nico
> >
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170. Re: [Racal6790GM] Re: help A4 board resistor location numbers !!!!!!!!!

Yahoo group: Racal6790GM
Date: 2004-10-11 13:44:42 UTC
From: gewingerd
Topic: 160 Message: 170

Nico,

I have the 9666 software for the receivers and it is the latest version for the receiver, it is $45.00 plus shipping.
You can Email me direct at gewingerd@...

Thanks,
Gary
----- Original Message -----
From: Nico
To: Racal6790GM@yahoogroups.com
Sent: Monday, October 11, 2004 1:56 AM
Subject: [Racal6790GM] Re: help A4 board resistor location numbers !!!!!!!!!

Hi Gary

Sorry for my bad english Gary thist is the reason for misunderstandig
I need A Readable Figure 6-12 Component location A4. page 6-24

About the latest firmware of the eproms how to get them here
because the version i have is not working properly with the remote
software the eproms on the A6A2 board are version
(2.2)L4 (2.2)L2 and (2.2)L0.

Thanks Nico

-- In Racal6790GM@yahoogroups.com, "gewingerd" <gewingerd@n...>
wrote:
> Nico
>
> The HEX Files are still owned by RACAL (THALES) and they won't sell
them.
>
> Thanks,
> Gary
> ----- Original Message -----
> From: nico van tienen
> To: Racal6790GM@yahoogroups.com
> Sent: Sunday, October 10, 2004 12:26 PM
> Subject: Re: [Racal6790GM] Re: help A4 board resistor location numbers
!!!!!!!!!
>
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> Gary
>
> Guy wil make some scans for me but perhaps you wil put
> your scans on de files list in the group then

> everybody can use them most of the schematics are
> readable as far as I know only the A4 board components
> locations are badly readable.
>
> By the way is it possible to get the 3 hex files of
> the A6A2 board eproms so that I program them by
> myself
>
> thanks Nico
>
>
> --- gary wingerd <gewingerd@n...> wrote:
>
> > Nico & Guy
> >
> > I have a size "D" Drawing in the shop, I may be
> > able to get it copied if you need it.
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> > Nico which resistors are you interested in knowing (
> > the AGC Resistors or something else).
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> > Thanks,
> > Gary
> > ----- Original Message -----
> > From: Guy Atkins
> > To: Racal6790GM@yahoogroups.com
> > Sent: Sunday, October 10, 2004 9:22 AM
> > Subject: RE: [Racal6790GM] Re: help A4 board
> > resistor location numbers !!!!!!!!!
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> > Nico,
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> > This afternoon I'll try to do a high-quality scan
> > of the A4 board page(s) from my original manual and
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> > 73,
> >
> > Guy
> >
> > -----Original Message-----
> > From: Nico [mailto:ik00ke@y...]
> > Sent: Sunday, October 10, 2004 9:08 AM
> > To: Racal6790GM@yahoogroups.com
> > Subject: [Racal6790GM] Re: help A4 board
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> > <dx@g...> wrote:
> > > Nico, have you tried the schematic pages that
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> > Premium-RX
> > > web site?
> > >
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> http://kahuna.sdsu.edu/~mechtron/PremRxPage/racal_6790.htm
> > >
> > > 73,
> > >
> > > Guy
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> > > To: Racal6790GM@yahoogroups.com
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> > >
> > >
> > > Hi all I am looking for a good component
> > layout of the A4 board the one
> > > in the Files of this group is not sharp
> > enough to read the resistor
> > > location
> > > numbers
> > >
> > > Is there a better one by one of the members
> > >
> > > Thanks
> > >
> > > Nico
> >
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171. Re: help A4 board resistor location numbers !!!!!!!!!

Yahoo group: Racal6790GM
Date: 2004-10-11 16:53:03 UTC
From: Nico
Topic: 160 Message: 171

Guy

Sorry for my bad english Guy this is the reason for misunderstanding
I need a Readable Figure 6-12 Component location A4 on page 6-24

please wil you make a readable copy of Figure 6-12

Thanks Nico

--- In Racal6790GM@yahoogroups.com, "Guy Atkins" <dx@g...> wrote:
> Nico,
>
> This afternoon I'll try to do a high-quality scan of the A4 board page(s)
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> --- In Racal6790GM@yahoogroups.com, "Guy Atkins" <dx@g...> wrote:
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172. Re: help A4 board resistor location numbers !!!!!!!!!

Yahoo group: Racal6790GM
Date: 2004-10-11 16:53:26 UTC
From: Nico
Topic: 160 Message: 172

Guy

Sorry for my bad english Guy this is the reason for misunderstanding
I need a Readable Figure 6-12 Component location A4 on page 6-24

please wil you make a readable copy of Figure 6-12

Thanks Nico

--- In Racal6790GM@yahoogroups.com, "Guy Atkins" <dx@g...> wrote:
> Nico,
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> This afternoon I'll try to do a high-quality scan of the A4 board page(s)
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>
>
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> Nope the schematics on the premium RX page are exactly the same
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> > Nico, have you tried the schematic pages that are posted at the
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174. help Figure 6-12 Component location A4

Yahoo group: Racal6790GM
Date: 2004-10-13 08:22:19 UTC
From: Nico
Topic: 174 Message: 174

TO ALL >>

I am still seeking for a Readable Figure 6-12 Component location A4 on

page 6-24 because the one the group files is not readable ....

Thanks Nico

175. RE: [Racal6790GM] help Figure 6-12 Com ponent location A4

Yahoo group: Racal6790GM
Date: 2004-10-13 11:53:51 UTC
From: Carcia, Francis A HS
Topic: 175 Message: 175

Find a common IC and follow the PC board land lines to the component.

-----Original Message-----
From: Nico [mailto:ik00ke@...]
Sent: Wednesday, October 13, 2004 4:22 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] help Figure 6-12 Component location A4

TO ALL >>

I am still seeking for a Readable Figure 6-12 Component location A4 on

page 6-24 because the one the group files is not readable ....

Thanks Nico

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<http://us.ard.yahoo.com/SIG=129sdg0ot/M=315388.5497957.6576270.3001176/D=groups/S=1708396379:HM/EXP=1097742156/A=2372354/R=0/SIG=12id813k2/*https://www.orchardbank.com/hcs/hcsapplication?pf=PLApply&media=EMYHNL40F21004SS> click here

<http://us.adserver.yahoo.com/l?M=315388.5497957.6576270.3001176/D=groups/S=:HM/A=2372354/rand=476562628>

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<http://docs.yahoo.com/info/terms/> .

176. Re: help Figure 6-12 Component location A4

Yahoo group: Racal6790GM
Date: 2004-10-13 12:21:48 UTC
From: Nico
Topic: 175 Message: 176

Yep you are right Carcia
But than I have to remove the entire board I think
thats not needfull when having a readable figure 6-12 to work with......

--- In Racal6790GM@yahoogroups.com, "Carcia, Francis A HS"
<francis.carcia@h...> wrote:
> Find a common IC and follow the PC board land lines to the component.
>
> -----Original Message-----
> From: Nico [mailto:ik00ke@y...]
> Sent: Wednesday, October 13, 2004 4:22 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] help Figure 6-12 Component location A4
>
>
>
> TO ALL >>
>
> I am still seeking for a Readable Figure 6-12 Component location A4 on
>
> page 6-24 because the one the group files is not readable ....
>
>
>
> Thanks Nico
>
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>
>
>
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>
<http://us.ard.yahoo.com/SIG=129sdg0ot/M=315388.5497957.6576270.3001
176/D=gr
>
oups/S=1708396379:HM/EXP=1097742156/A=2372354/R=0/SIG=12id813k
2/*https://www
>
.orchardbank.com/hcs/hcsapplication?pf=PLApply&media=EMYHNL40F2100
4SS> click
> here

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>
<http://us.adserver.yahoo.com/l?M=315388.5497957.6576270.3001176/D=gr
oups/S=
> :HM/A=2372354/rand=476562628>
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> Yahoo! Groups Links
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>
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/Racal6790GM/
> <http://groups.yahoo.com/group/Racal6790GM/>
>
>
> * To unsubscribe from this group, send an email to:
> Racal6790GM-unsubscribe@yahoogroups.com
>
<mailto:Racal6790GM-unsubscribe@yahoogroups.com?subject=Unsubscrib
e>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .

177. RE: [Racal6790GM] help Figure 6-12 Component locati on A4

Yahoo group: Racal6790GM
Date: 2004-10-13 16:13:50 UTC
From: Guy Atkins
Topic: 174 Message: 177

Hi Nico,

Was the Figure 6-12 GIF file I emailed to you yesterday not readable for
you? I scanned it in at a high resolution, and I could read all the numbers.

regards,

Guy

-----Original Message-----
From: Nico [mailto:ik00ke@...]
Sent: Wednesday, October 13, 2004 1:22 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] help Figure 6-12 Component location A4

TO ALL >>

I am still seeking for a Readable Figure 6-12 Component location A4 on

page 6-24 because the one the group files is not readable ....

Thanks Nico

178. RE: [Racal6790GM] help Figure 6-12 Component location A4

Yahoo group: Racal6790GM
Date: 2004-10-13 18:58:54 UTC
From: nico van tienen
Topic: 174 Message: 178

hi Guy

No I didn't receive a gif file at all
did you sent it to my personal email adres

--- Guy Atkins <dx@...> wrote:

> Hi Nico,
>
> Was the Figure 6-12 GIF file I emailed to you
> yesterday not readable for
> you? I scanned it in at a high resolution, and I
> could read all the numbers.
>
> regards,
>
> Guy
>
> -----Original Message-----
> From: Nico [mailto:ik00ke@...]
> Sent: Wednesday, October 13, 2004 1:22 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] help Figure 6-12 Component
> location A4
>
>
>
> TO ALL
> >>
>
> I am still seeking for a Readable Figure 6-12
> Component location A4 on
>
> page 6-24 because the one the group files is not
> readable ....
>
>
>
> Thanks Nico
>
>
>
>

Do you Yahoo!?

Yahoo! Mail - Helps protect you from nasty viruses.
http://promotions.yahoo.com/new_mail

179. RE: [Racal6790GM] help Figure 6-12 Component location A4

Yahoo group: Racal6790GM
Date: 2004-10-13 19:36:17 UTC
From: Guy Atkins
Topic: 174 Message: 179

Nico,

I sent the file to your Yahoo email address. However, now I remember that you gave me an alternate email. I cannot find this other email address, so if you let me know it again I will resend the fig. 6-12 file.

Guy
-----Original Message-----
From: nico van tienen [mailto:ik00ke@...]
Sent: Wednesday, October 13, 2004 11:59 AM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] help Figure 6-12 Component location A4

hi Guy

No I didn't receive a gif file at all
did you sent it to my personal email adres

180. Re: help Figure 6-12 Component location A4

Yahoo group: Racal6790GM
Date: 2004-10-13 19:44:24 UTC
From: Nico
Topic: 174 Message: 180

Ok Guy

personal mail adr

n.v.t@...

or

n.v.t@...

thanks

Nico the Dutchman

--- In Racal6790GM@yahoogroups.com, "Guy Atkins" <dx@g...> wrote:
> Nico,
>
> I sent the file to your Yahoo email address. However, now I remember that
> you gave me an alternate email. I cannot find this other email address, so
> if you let me know it again I will resend the fig. 6-12 file.
>
> Guy
> -----Original Message-----
> From: nico van tienen [mailto:ik00ke@y...]
> Sent: Wednesday, October 13, 2004 11:59 AM
> To: Racal6790GM@yahoogroups.com
> Subject: RE: [Racal6790GM] help Figure 6-12 Component location A4
>
>
> hi Guy
>
> No I didn't receive a gif file at all
> did you sent it to my personal email adres

181. ra6790 alignment.

Yahoo group: Racal6790GM
Date: 2004-10-26 11:55:58 UTC
From: takisperdikaris
Topic: 181 Message: 181

Dear friend Max .
Using your file "align tune manual" I cant find fig 3-2B in the A4
board to see the bandpass of the RA6790 IF . Is it possible to send
me the figure and/ or the title of the whole dokument .
Thank you in advance .
Takis

182. maxh2drm-ra6790 alignment .

Yahoo group: Racal6790GM
Date: 2004-10-26 14:21:48 UTC
From: takisperdikaris
Topic: 182 Message: 182

dear Max
Please inform me about fig 3-2B of your "align tune manual" that is
written in the section of A4 IF board alignment or the book title to
ask it .
Thank you in advance .
Takis SV1FJL .

183. Re: [Racal6790GM] maxh2drm-ra6790 alignment .

Yahoo group: Racal6790GM
Date: 2004-10-26 19:31:16 UTC
From: maxhdrm2
Topic: 182 Message: 183

Hello Takis,
Unfortunately My document scanner is bad so at the moment I could not send the page that you are referring to.
Hopefully someone in the 6790 community can scan up this page and get it to you.
If all efforts fail and you still can't get the information online, I am sure that Gary Wingerd would sell you a hard copy of this manual for a nominal fee. Ask for the alignment and tuning manual. He will know what manual you need. (Preliminary Technical Repair Instruction Manual).
http://gewingerd@.../
I am sorry I could not be of more help.
Max

----- Original Message -----
From: "takisperdikaris" <sv1fjl@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Tuesday, October 26, 2004 10:21 AM
Subject: [Racal6790GM] maxh2drm-ra6790 alignment .

>
>
> dear Max
> Please inform me about fig 3-2B of your "align tune manual" that is
> written in the section of A4 IF board alignment or the book title to
> ask it .
> Thank you in advance .
> Takis SV1FJL .
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> Yahoo! Groups Links
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185. RA1792

Yahoo group: Racal6790GM
Date: 2004-12-18 10:53:14 UTC
From: Nico
Topic: 185 Message: 185

Hi

I changed my good old nrd525 for a RA1792 out of order.....with the complete manuals, in the meantime I repaired it and it is an incredible receiver the onley thing is that the eproms are a little old how to get the newer ones. ???????

Is there a member who has some information for me

Thanks

Nico

186. Re: [Racal6790GM] RA1792

Yahoo group: Racal6790GM
Date: 2004-12-18 16:07:22 UTC
From: Dan Rae
Topic: 185 Message: 186

Nico wrote:

>
> the eproms are a little old how to get the newer
> ones. ???????
>
> Is there a member who has some information for me
>
It's a little bit more complicated than that Nico. Unlike the 6790, all the data in the 1792, filter bandwidth, filter set, tuning step, type of interface and so on, is held in Eprom. As a result there are many different Eprom sets (maybe 50 or more), as well as there being 2 eprom and 3 eprom versions for the different A6A2 boards in the different versions of the radio. Unless you want to change the tuning step to 1 Hz instead of 10 Hz or go for 100 channel scanning instead of 10, you'd be well advised to keep the original eproms. Age does not have much to do with it! Although having said that, I have a late (1990) version of the 2 eprom software (gpib, 6 filters, 1 Hz tuning etc.,) that has a much improved auto speed up on the tuning. Interesting that they were still changing it up to such a recent date...

If you are worried about the actual eproms being old, and when these were introduced in the early 70s, there was some talk of the data retention only being good for maybe 10 years, then that worry seems to have been unfounded :^)

Keith Rawlings can supply the GB filters, 1 Hz tuning with speed up, 100 channel scanning, SCORE card, 3 eprom set,
see his web site.

http://www.recelectronics.demon.co.uk/main-page.htm

I have eprom images of the gpib interface version of the same, both 2 and 3 eprom versions, if this is what you need, contact me off list.

Regards
Dan
ac6ao / g3ncr

187. Re: RA1792

Yahoo group: Racal6790GM
Date: 2004-12-19 12:17:33 UTC
From: Nico
Topic: 185 Message: 187

Hi Dan

I have A 1792 with two eproms on the board i like to have
the the 1Hz and 100 channel scan option in the receiver

5 filters are in it fl 1 and 2 res lsb usb
3 = 300 hz
4 = 1000 hz
5 = not used
6 = 600 hz
7 = linked and i think is the 16 khz filter

I wil change the RS 232 remote board from the one from
the 6790 when possible , the original is Ieee 488 hp protocol
and no common use without a second interface

I would like to have the eprom hex files for the one with two eproms
on board ... I can programm them by my self unless to repair the
programmer first.

When ok wil you send it to my personal email adres
n.v.t@...

thanks Nico

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@v...> wrote:
>
>
> Nico wrote:
>
> >
> > the eproms are a little old how to get the newer
> > ones. ???????
> >
> > Is there a member who has some information for me
> >
> It's a little bit more complicated than that Nico. Unlike the 6790, all
> the data in the 1792, filter bandwidth, filter set, tuning step, type of
> interface and so on, is held in Eprom. As a result there are many
> different Eprom sets (maybe 50 or more), as well as there being 2
> eprom and 3 eprom versions for the different A6A2 boards in the
> different versions of the radio. Unless you want to change the tuning
> step to 1 Hz instead of 10 Hz or go for 100 channel scanning instead of
> 10, you'd be well advised to keep the original eproms. Age does not
> have much to do with it! Although having said that, I have a late
> (1990) version of the 2 eprom software (gpib, 6 filters, 1 Hz tuning
> etc.,) that has a much improved auto speed up on the tuning.

> Interesting that they were still changing it up to such a recent date...
>
> If you are worried about the actual eproms being old, and when these
> were introduced in the early 70s, there was some talk of the data
> retention only being good for maybe 10 years, then that worry seems to
> have been unfounded :^)
>
> Keith Rawlings can supply the GB filters, 1 Hz tuning with speed up, 100
> channel scanning, SCORE card, 3 eprom set,
> see his web site.
>
> http://www.recelectronics.demon.co.uk/main-page.htm
>
> I have eprom images of the gpib interface version of the same, both 2
> and 3 eprom versions, if this is what you need, contact me off list.
>
> Regards
> Dan
> ac6ao / g3ncr

188. Racal 6790/Gm

Yahoo group: Racal6790GM
Date: 2004-12-31 14:46:23 UTC
From: hns_r
Topic: 188 Message: 188

Hello My Name is Hans,
I am living in the Netherlands and I am very interested in the Racal shortwave receivers.
I like to buy a Racal 6790/gm or Racal 6793A or Racal1792.
Do someone know a save adress were they sell this receivers.
I am not very technical so it must be in a very good working condition.
Also complete with al the filters and no "bleeding" display.
And the possibility to connect to a computer.
Best 73 Hans PE1NXG

189. Re: [Racal6790GM] Racal 6790/Gm

Yahoo group: Racal6790GM
Date: 2004-12-31 15:17:50 UTC
From: maxhdrm2
Topic: 188 Message: 189

Hans,
Welcome! I am sure someone here can accommodate you! Standby.
Max
----- Original Message -----
From: "hns_r" <hns_r@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Friday, December 31, 2004 9:46 AM
Subject: [Racal6790GM] Racal 6790/Gm

>
>
> Hello My Name is Hans,
> I am living in the Netherlands and I am very interested in the Racal
> shortwave receivers.
> I like to buy a Racal 6790/gm or Racal 6793A or Racal1792.
> Do someone know a save adress were they sell this receivers.
> I am not very technical so it must be in a very good working
> condition.
> Also complete with al the filters and no "bleeding" display.
> And the possibility to connect to a computer.
> Best 73 Hans PE1NXG
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> Yahoo! Groups Links
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190. How to start repair?

Yahoo group: Racal6790GM
Date: 2005-02-02 04:05:32 UTC
From: rebirth606_rebrth606
Topic: 190 Message: 190

Hello everybody ,

Just got surplus 6790 (half-working).Fault LED lit but
CPU control works fine .Reaction to button press is correct
accept BW buttons.Noise coming out and changes from mode to mode but
no signal whatsoever .I just read some info from the other source :
if I run BITE (actually I don't now how to run it) the RAM with
setup data will be erased and receiver will dead until CPU board
will be installed in working received with same set of filters.
Little bit confusing - why BITE need it if I can loose setup
information in case I'd like to find out faulty board.

Receiver has ISB board and 2 A15 IF broadband cards (looks like it has
the same chip as FM detector ,so unclear if A15 is FM output or
just general IF for band scope probably)

Gene.

191. Newbie questions

Yahoo group: Racal6790GM
Date: 2005-03-01 00:53:21 UTC
From: ke4wul
Topic: 191 Message: 191

My first 6790GM SN/5912 arrived today, and I have gotten as far as turning the power on. How do I hook a speaker to this thing? How do I even test for proper operation? Etc. Help me, somebody!

192. Re: [Racal6790GM] Newbie questions

Yahoo group: Racal6790GM
Date: 2005-03-01 01:35:13 UTC
From: Dan Rae
Topic: 191 Message: 192

Plug a pair of headphones in? But seriously, pin 18 (LS) and 6 (Ground) of the DB25 connector will get you started. There are manuals on line if you care to Google...
dr

ke4wul wrote:

My first 6790GM SN/5912 arrived today, and I have gotten as far as turning the power on. How do I hook a speaker to this thing? How do I even test for proper operation? Etc. Help me, somebody!

193. Another Newbie Question

Yahoo group: Racal6790GM
Date: 2005-03-01 10:51:42 UTC
From: Nick Whittingham
Topic: 193 Message: 193

I have also just bought a 6790/GM. It came from a 110v country, but I need to run in a 240v country. Can I safely plug the receiver into the wall, or do I need to make internal adjustments. I know that I need to change the fuse. Anybody know where these fuses can be bought on the internet? Thanks for any help!

194. Re: [Racal6790GM] Another Newbie Question

Yahoo group: Racal6790GM
Date: 2005-03-01 11:17:07 UTC
From: gandalfg8@aol.com
Topic: 193 Message: 194

The voltage selector is normally built in to the fuseholder.
There should be a removable circuit card with gold plated connector pads
under the same sliding cover, next to the mains connector, that houses the fuse.
If I remember rightly the fuse needs to be removed and the fuse lever left
up before the card can be removed.
There's usually holes on the card edges for a puller but a small pair of
pliers should do the job so long as you don't damage any track.
Before removing the card take a look and see how it's lined up to show 110
or 120 volts at the moment and then replace it so it shows 230 or 240 in that
same position.
Although a lower fuse is recommended for 230v as opposed to 110 it probably
won't matter too much if you don't change it.
Not setting the voltage right before you start will certainly matter !!!!
There are manuals available online for the 6790GM, perhaps even in the files
section of this group but can't remember on that.
Good luck and enjoy...
It's a very nice radio
Nigel Clarke
G8PZR

195. RE: [Racal6790GM] Newbie questions

Yahoo group: Racal6790GM
Date: 2005-03-01 13:18:50 UTC
From: Carcia, Francis A HS
Topic: 191 Message: 195

Gee Dan I think those are the same pins used in the 6830. fc

-----Original Message-----
From: Dan Rae [mailto:danrae@...]
Sent: Monday, February 28, 2005 8:35 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Newbie questions

Plug a pair of headphones in? But seriously, pin 18 (LS) and 6 (Ground) of
the DB25 connector will get you started. There are manuals on line if you
care to Google...
dr

ke4wul wrote:

My first 6790GM SN/5912 arrived today, and I have gotten as far as
turning the power on. How do I hook a speaker to this thing? How do I
even test for proper operation? Etc. Help me, somebody!

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<http://us.ard.yahoo.com/SIG=129ubd7ce/M=298184.6018725.7038619.3001176/D=gr
oups/S=1708396379:HM/EXP=1109727347/A=2593423/R=0/SIG=11el9gslf/*http://www.
netflix.com/Default?mqso=60190075> click here

<http://us.adserver.yahoo.com/l?M=298184.6018725.7038619.3001176/D=groups/S=
:HM/A=2593423/rand=747649305>

_____

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/
<http://groups.yahoo.com/group/Racal6790GM/>

* To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com
<mailto:Racal6790GM-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

196. Dead on arrival - any ideas?

Yahoo group: Racal6790GM
Date: 2005-03-01 15:06:05 UTC
From: Nick Whittingham
Topic: 196 Message: 196

My new 6790/GM arrived today with a severe dent to one corner and seems ³dead on arrival². When powered up the LCD display shows all zeros, and no buttons or dials make any difference. The fault light is also lit... Does this sound serious? The receiver was insured for the journey from the US to China, but I fear that won¹t cover damage... Any suggestions gratefully received!

197. Re: [Racal6790GM] Dead on arrival - any ideas?

Yahoo group: Racal6790GM
Date: 2005-03-01 15:19:56 UTC
From: Dan Rae
Topic: 196 Message: 197

Nick Whittingham wrote:

> My new 6790/GM arrived today with a severe dent to one corner and
> seems ?dead on arrival?. When powered up the LCD display shows all
> zeros, and no buttons or dials make any difference. The fault light is
> also lit... Does this sound serious? The receiver was insured for the
> journey from the US to China, but I fear that won?t cover damage...
> Any suggestions gratefully received!

Nick, this indicates that the cpu is not running, and sounds like it is permanently in the reset mode.
Loss of one of the supplies can cause this.

Check all the supply voltages.
Check that all the interconnecting cables are in place firmly.
Check for any visible damage to any circuit boards.

These sets are pretty rugged but they do have their limits! Procedures in the manual will help to track the problem down.

Good luck,
Dan
ac6ao / g3ncr

198. Re: [Racal6790GM] Dead on arrival - any ideas?

Yahoo group: Racal6790GM
Date: 2005-03-01 15:44:14 UTC
From: Nick Whittingham
Topic: 196 Message: 198

Dan

Thanks for your suggestions. I've visually inspected the interior of the receive and checked all the interconnecting cables. Everything looks fine.

The big dent on the receiver is on the corner next to the power supply, so this seems to point to the power issue that you mention.

I tried initialising the set according to the section of the manual I have, but this had no effect. The displays continue to display zeros...

Unfortunately I'm in Beijing, so finding someone to repair a Racal locally is likely to be a long shot!

Nick

On 1/3/05 23:19, "Dan Rae" <danrae@...> wrote:

>
>
>
> Nick Whittingham wrote:
>
>> My new 6790/GM arrived today with a severe dent to one corner and
>> seems ³dead on arrival². When powered up the LCD display shows all
>> zeros, and no buttons or dials make any difference. The fault light is
>> also lit... Does this sound serious? The receiver was insured for the
>> journey from the US to China, but I fear that won¹t cover damage...
>> Any suggestions gratefully received!
>
> Nick, this indicates that the cpu is not running, and sounds like it is
> permanently in the reset mode.
> Loss of one of the supplies can cause this.
>
> Check all the supply voltages.
> Check that all the interconnecting cables are in place firmly.
> Check for any visible damage to any circuit boards.
>
> These sets are pretty rugged but they do have their limits! Procedures
> in the manual will help to track the problem down.
>
> Good luck,
> Dan
> ac6ao / g3ncr
>
>
>

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> Yahoo! Groups Links
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Nick
---
n_whittingham@...

199. RE: [Racal6790GM] Dead on arrival - any ideas?

Yahoo group: Racal6790GM
Date: 2005-03-01 15:49:45 UTC
From: Carcia, Francis A HS
Topic: 196 Message: 199

You can down load the complete manual from "premium rx" in the reference section.

-----Original Message-----
From: Nick Whittingham [mailto:n_whittingham@...]
Sent: Tuesday, March 01, 2005 10:44 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Dead on arrival - any ideas?

Dan

Thanks for your suggestions. I've visually inspected the interior of the receive and checked all the interconnecting cables. Everything looks fine.

The big dent on the receiver is on the corner next to the power supply, so this seems to point to the power issue that you mention.

I tried initialising the set according to the section of the manual I have, but this had no effect. The displays continue to display zeros...

Unfortunately I'm in Beijing, so finding someone to repair a Racal locally is likely to be a long shot!

Nick

On 1/3/05 23:19, "Dan Rae" <danrae@...> wrote:

>
>
>
> Nick Whittingham wrote:
>
>> My new 6790/GM arrived today with a severe dent to one corner and
>> seems ³dead on arrival². When powered up the LCD display shows all
>> zeros, and no buttons or dials make any difference. The fault light is
>> also lit... Does this sound serious? The receiver was insured for the
>> journey from the US to China, but I fear that won¹t cover damage....
>> Any suggestions gratefully received!
>
> Nick, this indicates that the cpu is not running, and sounds like it is
> permanently in the reset mode.
> Loss of one of the supplies can cause this.
>
> Check all the supply voltages.
> Check that all the interconnecting cables are in place firmly.
> Check for any visible damage to any circuit boards.
>

> These sets are pretty rugged but they do have their limits! Procedures
> in the manual will help to track the problem down.
>
> Good luck,
> Dan
> ac6ao / g3ncr
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Nick
---
n_whittingham@...

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<http://us.adserver.yahoo.com/l?M=298184.6018725.7038619.3001176/D=groups/S=:HM/A=2593423/rand=718720800>

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/
<http://groups.yahoo.com/group/Racal6790GM/>

* To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com
<mailto:Racal6790GM-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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<http://docs.yahoo.com/info/terms/> .

200. 6790 windows software

Yahoo group: Racal6790GM
Date: 2005-03-01 16:08:45 UTC
From: pentode01
Topic: 200 Message: 200

At the risk of duplicating some earlier thread, does anyone know of windows based (XP) control software that is available on the web for 6790? Any help would be very much appreciated.
73 Ken N2GHX

201. Tantalum Capacitors

Yahoo group: Racal6790GM
Date: 2005-03-16 17:16:55 UTC
From: Dan Rae
Topic: 201 Message: 201

If you want dramatic pictures of what an exploded tantalum capacitor
looks like, take a peek at the bottom left hand corner of:

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=5760492275&indexURL=0&photoDisplayType=2#ebayphotohosting
<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=5760492275&indexURL=0&photoDisplayType=2#ebayphotohosting>

Having had yet another one of these recently myself, I know the signs :^)

And this board was pulled from a "working receiver"...

dr

202. Tantalums again

Yahoo group: Racal6790GM
Date: 2005-03-17 18:05:30 UTC
From: Dan Rae
Topic: 202 Message: 202

In my posting of the other day, I had no intention of putting anybody off buying the referenced eBay item, the intention was mainly to point out what this very common failure looks like. If the relevant capacitors (C3, next to the scorch mark, and C57 half way up the same side of the board with one leg off, both 6.8 µF 35 Volt working tantalum) are replaced, I see absolutely no reason why this board won't work, and at the starting price is quite a bargain, given the cost of some of the parts on it.

If your radio dies one day with a smell of burning, this then is what to look for... Many of these capacitors are used to decouple the supply lines, sometimes with a series R or L which can also get fried when the caps short out.

So, my apologies for having offended Mr Warmglow, but it was well meant...
dr

203. RE: [Racal6790GM] Tantalums again

Yahoo group: Racal6790GM
Date: 2005-03-17 19:01:22 UTC
From: Carcia, Francis A HS
Topic: 202 Message: 203

Racal got smart with the RA6830 and added a series inductor that makes a nice fuse when the cap
shorts. Yup still a bargain with one bad cap, easy to find. fc

-----Original Message-----
From: Dan Rae [mailto:danrae@...]
Sent: Thursday, March 17, 2005 1:06 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Tantalums again

In my posting of the other day, I had no intention of putting anybody off buying the referenced eBay item, the intention was mainly to point out what this very common failure looks like. If the relevant capacitors (C3, next to the scorch mark, and C57 half way up the same side of the board with one leg off, both 6.8 ?F 35 Volt working tantalum) are replaced, I see absolutely no reason why this board won't work, and at the starting price is quite a bargain, given the cost of some of the parts on it.

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dr

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<http://us.ard.yahoo.com/SIG=1293fkiju/M=298184.6191685.7192823.3001176/D=groups/S=1708396379:HM/EXP=1111169140/A=2593423/R=0/SIG=11el9gslf/*http://www.netflix.com/Default?mqso=60190075> click here

<http://us.adserver.yahoo.com/l?M=298184.6191685.7192823.3001176/D=groups/S=:HM/A=2593423/rand=783665737>

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204. Re: [Racal6790GM] Tantalums again

Yahoo group: Racal6790GM
Date: 2005-03-18 02:28:19 UTC
From: mparkinson1
Topic: 202 Message: 204

I thank you for that information on the burnt board I know you didn't mean any harm but there are some out there that seem to think if that board is burnt because of a blown cap then the board is no good at all.
I really want to thank you for all that information.
I didn't mean to come off so gruf but I have some smart A say something about a receiver one time and that blew a 3000.00 sale.
I was lucking a few weeks later and someone else who say that auction wanted the receiver anyways as he knew what a deal he was getting.
Like I said before I would be glad to return the favor to you not meaning I was pissed off about what you said.
I should have stated that in the auction but when posting and in a hurry I just put in up there at a low starting bid and I just figured that anyone that knew Racal equipment that it would be great to just get any parts for there receiver who know just what part they would need or just plain fix the boards and have spares.
I have one set a spares for my Racal and was glad to get them.
I wanted to pass on the extra parts to some one else who would also be gald to have spares.
So again thanks for that correction and a statement that was well made by you.
I don't want any hard feeling between us because who know we may need something from each other in the furture.
Matt Parkinson (warmglow).

----- Original Message -----
From: Dan Rae
To: Racal6790GM@yahoogroups.com
Sent: Thursday, March 17, 2005 10:05 AM
Subject: [Racal6790GM] Tantalums again

In my posting of the other day, I had no intention of putting anybody off buying the referenced eBay item, the intention was mainly to point out what this very common failure looks like. If the relevant capacitors (C3, next to the scorch mark, and C57 half way up the same side of the board with one leg off, both 6.8 µF 35 Volt working tantalum) are replaced, I see absolutely no reason why this board won't work, and at the starting price is quite a bargain, given the cost of some of the parts on it.

If your radio dies one day with a smell of burning, this then is what to look for... Many of these capacitors are used to decouple the supply lines, sometimes with a series R or L which can also get fried when the caps short out.

So, my apologies for having offended Mr Warmglow, but it was well meant...
dr

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205. Racal Mystery Boards

Yahoo group: Racal6790GM
Date: 2005-03-18 23:11:16 UTC
From: daveinbham@aol.com
Topic: 205 Message: 205

I just bought an A5 ISB board for my Racal RA6790/GM from someone on Ebay.
The seller told me it was missing a few of the audio components.
Sure enough, U12, T1 & T2 were at sometime removed from the board. Whomever removed them did a very good job of it, but I can still see the imprint of the starwashers that were originally under the screws holding the transformers to the board. All the components required to support U12 appear to be still on the board. Other modifications to the board are a coax cable soldered to the foil side of the board under J3. Hand lettering on the component side of the board just above this cable says " rev. 5". Hand lettering between the original location for T1 and the edge of the board says " A5 615". Hand lettering next to J1 says " TO A4J3".
There is also a ribbon cable connected to W1 that has 3 connectors daisy chained on it. The first two of these are connected to 2 other boards described below. Judging by the folds in the ribbon cable, it appears the A5 board lived above them in the radio this stuff came from.
Included with the A5 board were 2 other boards the same size as the A5 board bearing the numbers 23386 A09321. There are coax cables about a foot long from J2 & J4 on both these boards that are terminated in BNC jacks.
Does anyone know what I have here ?
Anyone have a schematic for the mystery boards?

Kindest regards,
Dave
****
***

206. Re: [Racal6790GM] Digest Number 73

Yahoo group: Racal6790GM
Date: 2005-03-20 01:28:45 UTC
From: Richard McDonald
Topic: 206 Message: 206

Hi
Not sure if the brd A5 ISB is in the complete manual or not but would think
it would be. You can get a PDF copy from
http://bama.edebris.com/manuals/racal/ra6790/
Richard K5WOR

----- Original Message -----
From: <Racal6790GM@yahoogroups.com>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, March 19, 2005 9:14 AM
Subject: [Racal6790GM] Digest Number 73

There is 1 message in this issue.

Topics in this digest:

1. Racal Mystery Boards
From: daveinbham@...

Message: 1
Date: Fri, 18 Mar 2005 18:11:16 EST
From: daveinbham@...
Subject: Racal Mystery Boards

I just bought an A5 ISB board for my Racal RA6790/GM from someone on Ebay.
The seller told me it was missing a few of the audio components.
Sure enough, U12, T1 & T2 were at sometime removed from the board. Whomever
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the board. Other modifications to the board are a coax cable soldered to the
foil side of the board under J3. Hand lettering on the component side of the
board just above this cable says " rev. 5". Hand lettering between the
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location for T1 and the edge of the board says " A5 615". Hand lettering
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above them in the radio this stuff came from.
Included with the A5 board were 2 other boards the same size as the A5 board
bearing the numbers 23386 A09321. There are coax cables about a foot long
from J2 & J4 on both these boards that are terminated in BNC jacks.
Does anyone know what I have here ?
Anyone have a schematic for the mystery boards?

Kindest regards,
Dave
****
***

[This message contained attachments]

Yahoo! Groups Links

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207. Mystery Board 23386 A09321

Yahoo group: Racal6790GM
Date: 2005-03-20 17:33:59 UTC
From: daveinbham@aol.com
Topic: 207 Message: 207

It appears i did not clearly state my request. The diagram for the A5 board IS in the manual. But the diagram for the 23386 A09321 board IS NOT in the manual or anywhere else as far as I can determine.
So, to restate my request, hopefully a bit more clearly: Does anyone have a diagram for board 23386 A09321 ? Does anyone know what this board does ?

Kindest regards,
Dave
****
**

> Message: 1
> Date: Sat, 19 Mar 2005 19:28:45 -0600
> From: "Richard McDonald" <K5wor@...>
> Subject: Re: Digest Number 73
>
> Hi
> Not sure if the brd A5 ISB is in the complete manual or not but would think
>
> it would be. You can get a PDF copy from
> http://bama.edebris.com/manuals/racal/ra6790/
> Richard K5WOR
>
>
> ----- Original Message -----
> From: <Racal6790GM@yahoogroups.com>
> To: <Racal6790GM@yahoogroups.com>
> Sent: Saturday, March 19, 2005 9:14 AM
> Subject: [Racal6790GM] Digest Number 73
>
>
>
> There is 1 message in this issue.
>
> Topics in this digest:
>
> 1. Racal Mystery Boards
> From: daveinbham@...
>
>
> --
> --
>
> Message: 1
> Date: Fri, 18 Mar 2005 18:11:16 EST

> From: daveinbham@...
> Subject: Racal Mystery Boards
>
>
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> below. Judging by the folds in the ribbon cable, it appears the A5 board
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> above them in the radio this stuff came from.
> Included with the A5 board were 2 other boards the same size as the A5 board
> bearing the numbers 23386 A09321. There are coax cables about a foot long
> from J2 &J4 on both these boards that are terminated in BNC jacks.
> Does anyone know what I have here ?
> Anyone have a schematic for the mystery boards?

208. Re: [Racal6790GM] Mystery Board 23386 A09321

Yahoo group: Racal6790GM
Date: 2005-03-21 03:07:45 UTC
From: gewingerd
Topic: 207 Message: 208

Dave,
The board is a AM/FM Demodulator card, no further info on the card and I have most of the drawings for the Racal gear and this is not in any of the manuals that I have.

Thanks,
Gary
----- Original Message -----
From: daveinbham@...
To: Racal6790GM@yahoogroups.com
Sent: Sunday, March 20, 2005 9:33 AM
Subject: [Racal6790GM] Mystery Board 23386 A09321

It appears i did not clearly state my request. The diagram for the A5 board IS in the manual. But the diagram for the 23386 A09321 board IS NOT in the manual or anywhere else as far as I can determine.
So, to restate my request, hopefully a bit more clearly: Does anyone have a diagram for board 23386 A09321 ? Does anyone know what this board does ?

Kindest regards,
Dave
****

Message: 1
Date: Sat, 19 Mar 2005 19:28:45 -0600
From: "Richard McDonald" <K5wor@...>
Subject: Re: Digest Number 73

Hi
Not sure if the brd A5 ISB is in the complete manual or not but would think
it would be. You can get a PDF copy from
http://bama.edebris.com/manuals/racal/ra6790/
Richard K5WOR

----- Original Message -----
From: <Racal6790GM@yahoogroups.com>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, March 19, 2005 9:14 AM
Subject: [Racal6790GM] Digest Number 73

There is 1 message in this issue.

Topics in this digest:

1. Racal Mystery Boards
From: daveinbham@...

Message: 1
Date: Fri, 18 Mar 2005 18:11:16 EST
From: daveinbham@...
Subject: Racal Mystery Boards

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209. RE: [Racal6790GM] Mystery Board 23386 A09321

Yahoo group: Racal6790GM
Date: 2005-03-21 14:12:28 UTC
From: Carcia, Francis A HS
Topic: 207 Message: 209

I have one of those boards also. I suspect the ISB signal could be
modified to include AM,FM SSB
demodulation. The ISB board only has the 1496 demodulator and requires a
BFO signal so it will only do SSB,CW detection. I suspect it would interface
to the IF output of the ISB board. Who knows how
it is controlled.

-----Original Message-----
From: gewingerd [mailto:gewingerd@...]
Sent: Sunday, March 20, 2005 10:08 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Mystery Board 23386 A09321

Dave,
The board is a AM/FM Demodulator card, no further info on the card and I
have most of the drawings for the Racal gear and this is not in any of the
manuals that I have.

Thanks,
Gary

----- Original Message -----
From: daveinbham@... <mailto:daveinbham@...>
To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM@yahoogroups.com>
Sent: Sunday, March 20, 2005 9:33 AM
Subject: [Racal6790GM] Mystery Board 23386 A09321

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From: "Richard McDonald" <K5wor@...>
Subject: Re: Digest Number 73

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http://bama.edebris.com/manuals/racal/ra6790/
Richard K5WOR

----- Original Message -----
From: <Racal6790GM@yahoogroups.com>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, March 19, 2005 9:14 AM
Subject: [Racal6790GM] Digest Number 73

There is 1 message in this issue.

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From: daveinbham@...

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From: daveinbham@...
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210. IEEE488 A6A1 board

Yahoo group: Racal6790GM
Date: 2005-03-22 04:20:47 UTC
From: ke4wul
Topic: 210 Message: 210

Does anyone out ther know how to configure this GPIB type board for use with the ERGO4 software. I could not find anything in the manual on this thing. Thanks, Jim

211. Looking for pristine Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2005-03-25 18:48:35 UTC
From: malucoelbejuco
Topic: 211 Message: 211

Hi,

I am looking for a pristine Racal 6790/GM for my collection. If anyone is selling one or knows where I can get one, please let me know.

212. Re: [Racal6790GM] Looking for pristine Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2005-03-27 09:22:17 UTC
From: Tom Newton
Topic: 211 Message: 212

Hi,
I think I have just the unit. I was thinking of selling it, but haven't listed it yet. Why don't you send me your phone number or give me a call at 603-898-4524.
Best regards,
Tom Newton
----- Original Message -----
From: malucoelbejuco
To: Racal6790GM@yahoogroups.com
Sent: Friday, March 25, 2005 1:48 PM
Subject: [Racal6790GM] Looking for pristine Racal 6790/GM

Hi,

I am looking for a pristine Racal 6790/GM for my collection. If
anyone is selling one or knows where I can get one, please let me
know.

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213. Re: [Racal6790GM] Looking for pristine Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2005-03-27 08:32:03 UTC
From: roughplanet
Topic: 211 Message: 213

Hi Tom. I'm also looking for a nice 6790GM, but to use, not for any collection as my finances don't run to them. Are these receivers as good as they say? I am using my IC-746 as a receiver for digital modes, and would like to know how good the 6790 is compared to an amateur transceiver like this.
Thanks in anticipation,

Laurie Dare
VK3HLD

----- Original Message -----
From: Tom Newton
To: Racal6790GM@yahoogroups.com
Cc: Tom Newton
Sent: Sunday, March 27, 2005 7:22 PM
Subject: Re: [Racal6790GM] Looking for pristine Racal 6790/GM

Hi,
I think I have just the unit. I was thinking of selling it, but haven't listed it yet. Why don't you send me your phone number or give me a call at 603-898-4524.
Best regards,
Tom Newton
----- Original Message -----
From: malucoelbejuco
To: Racal6790GM@yahoogroups.com
Sent: Friday, March 25, 2005 1:48 PM
Subject: [Racal6790GM] Looking for pristine Racal 6790/GM

Hi,

I am looking for a pristine Racal 6790/GM for my collection. If
anyone is selling one or knows where I can get one, please let me
know.

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214. Re: IEEE488 A6A1 board

Yahoo group: Racal6790GM
Date: 2005-03-28 21:21:29 UTC
From: Nico
Topic: 210 Message: 214

--- In Racal6790GM@yahoogroups.com, "ke4wul" <jlgrrsn@c...> wrote:
>
> Does anyone out ther know how to configure this GPIB type board for
> use with the ERGO4 software. I could not find anything in the manual
> on this thing. Thanks, Jim

Hi Jim

Strange you have gpib in your 6790 normaly used in UK Ra1792
You have to build a rs232 gpib convertor interface
I hope you are a homebrewer I have a RA1792 with gpib and
i am building the same interface to communicate with the same
software i use for the 6790...

Here the site for all information schematics and PCB layout
for the hex files contact B.Velle

http://rxcontrol.free.fr/PicGPIB/index.html

Nico

215. Re: [Racal6790GM] Re: IEEE488 A6A1 board

Yahoo group: Racal6790GM
Date: 2005-03-29 00:42:27 UTC
From: jlgrrsn@charter.net
Topic: 210 Message: 215
Attachments: 1 described; binary payloads are missing from this source WARC

>
> From: "Nico" <ik00ke@...>
> Date: 2005/03/28 Mon PM 09:21:29 GMT
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Re: IEEE488 A6A1 board
>
>Thanks for the info. I also have the board with the 26 pin connector-just thought it might be nice to see if I could make the GPIB board work. I have a SCSI card on my PC, and a GPIB to SCSI controller unit with a 13 foot GPIB cable...I don't necessarily want the ERGO software, but anything that might enable computer control of the basic radio functions.
Thanks, Jim

216. Re: [Racal6790GM] Looking for pristine Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2005-04-01 02:06:47 UTC
From: Tom C
Topic: 211 Message: 216

To answer the question "are these receivers as good as they say?" and in particular, compared to an Icom IC-746, I would like to comment as follows:

I have in my possession two RACAL 6790's. One is half dead and it's going back where it came from. The other is borrowed and seems to work as well as it ever did. I have been listening to shortwave radios for 40 years. I've used Hammerlands, Hallicrafters, Collins, Panasonics, Icoms, a Harris and a Yaesu (and maybe some others I've forgotten). I have been a ham for 34 years. Based upon my experience with many radios over many years and based upon my experience with these two RACALs, it is my opinion that these are probably the most over-rated radios to be produced during my lifetime. An Icom 746 would run circles around one of these, as would almost any other modern receiver. Keep in mind that, while the RACAL's were cutting edge technology in the mid 1980's, and cost thousands of dollars, that technology is totally obsolete now. Except for someone willing to pay a lot for nostalgia, I can't imagine why anyone would buy one of these radios at the prices charged by the surplus
houses. I imagine anyone who has paid $700- 800 for one of these may be reluctant to admit that. But, that's the way I see it.

Tom Carrigan
NE1R

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Show us what our next emoticon should look like. Join the fun.

217. RE: [Racal6790GM] Looking for pristine Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2005-04-01 03:29:44 UTC
From: Dan Seven
Topic: 211 Message: 217

Hello Everyone:

The best radio that I have here is a Racal 6790GM. I have used Hammarlund, Hallicrafters, National, Sony ICF types, Racal 6217E system (ASA monitoring Station),
Drake R7 and TR7, as well as Watkins Johnson equipment for over 30 years.

The unit that I have was gone over by G Wingerd and is interfaced with a computer system using ERGO. The Synchronous AM detection is better than the Sherwood Se3 which is saying a lot. I use it with a rare WJ preamp.The Drake R7 is no slouch, but just does not compete despite the fact that it has been modified to lower the noise floor with modern diodes.

These Racal radios are robust and excellent values in the used marketplace IMHO. Racal has excellent VLF performance. How bout the ICOM?.
The down sides are that the ICOM put a 10 or 11 dB attenuator in the signal path below 1.6 MHz and the preamps are
disabled below 1.6 MHz. Furthermore, Preamp 1 gain rolls off fast below 500 kHz. And it is non-trivial to fix these
things because of the many tiny 0603 SMD’s and tiny PC board traces. But they are fixable, as I will describe below.
Sensitivity Measurement Issues
Perhaps it is just my IC-746Pro, but there seem to be some anomalies when measuring AM sensitivity. In the 6 kHz
(nominal) BW the AM sensitivity is a tenth of a microvolt or two better when the receiver is detuned to the high side.
Also, the digital noise reduction (NR knob position) can be used to improve the AM sensitivity by a few tenths of a
microvolt. So the question arises, “What is the AM sensitivity of the IC-746Pro in the 6 kHz BW?” Well, it seems to
vary by as much as much as 0.4 microvolts depending on the position of the controls. The tone TCN (tone control)
menu setting also affects sensitivity values. And if 1000 Hz signal generator modulation is used instead of the standard
400 Hz, measured sensitivity values are worse. Sensitivity values given below were made with the NR (noise
reduction) turned off (I think), and with 400 Hz modulation. I have no idea where the carrier was in the filter passband
because I did not know about detuning effect when those measurements were taken. So presumably those values could
be as much as 0.2 or 0.3 microvolts high from the best sensitivity.
Intercepts
The ARRL gave measured values for the intercepts in their long review

which for the most part I will not reproduce
here. The 3
rd
order intercept with Preamp 1 on is about +3 dBm with close spacing, and
the 2
nd
order about +70 dBm
above 1.6 MHz. Below 1.6 MHz (not measured by the ARRL), with the 11 dB
attenuator removed and Preamp 1
enabled (to be described in detail below) the 2
nd
order intercept is typically +35 dBm when both tones are in the MW
and/or LW band(s) and +85 dBm when both tones are in the HF bands. This
is because a simple elliptic low pass filter
with cutoff frequency somewhat above 1.6 MHz and attenuation in excess
of 40 dB at 3 MHz and above is used when
tuning below 1.6 MHz. A low pass filter may be needed for the LW band,
and some kind of tracked tuned circuit may
be needed for the MW band for “in band” intermod free reception. The
746P 2
nd
order performance above 1.6 MHz is
much better because it uses switched bandpass filters above 1.6 MHz.
However, the filters could obviously be better.
So even in the HF bands additional front end filtering may be wanted in
some cases. Wide spaced (out of band) 3
rd
order intercepts generally vary in the +38 to +40 dBm range for the HF
bands and about +44 dBm in the MW and LW
bands. Overall I expect my modified (attenuator below 1.6 MHz removed
and Preamp 1 enabled) 746P to be an
excellent performer with regard to intermod except, perhaps, for in band
MW and LW intermod, which can be fixed by
various filters. I have not experienced any LW or MW intermod, but then
I am not near any high power MW
transmitters. For LW it is straightforward to build a good 450 kHz
cutoff low pass filter, or you can buy one from Kiwa
Electronics. If MW intermod is experienced, an appropriate MW filter can
be built or perhaps bought.
3

Page 4
4

Page 5
5

The down sides are that the ICOM put a 10 or 11 dB attenuator in the signal path below 1.6 MHz and the preamps are disabled below 1.6 MHz. Furthermore, Preamp 1 gain rolls off fast below 500 kHz. And it is non-trivial to fix these things because of the many tiny 0603 SMD's and tiny PC board traces. But they are fixable, as I will describe below.

Sensitivity Measurement Issues

Perhaps it is just my IC-746Pro, but there seem to be some anomalies when measuring AM sensitivity. In the 6 kHz (nominal) BW the AM sensitivity is a tenth of a microvolt or two better when the receiver is detuned to the high side.

Also, the digital noise reduction (NR knob position) can be used to improve the AM sensitivity by a few tenths of a microvolt. So the question arises, "What is the AM sensitivity of the IC-746Pro in the 6 kHz BW?" Well, it seems to vary by as much as much as 0.4 microvolts depending on the position of the controls. The tone TCN (tone control) menu setting also affects sensitivity values. And if 1000 Hz signal generator modulation is used instead of the standard 400 Hz, measured sensitivity values are worse. Sensitivity values given below were made with the NR (noise reduction) turned off (I think), and with 400 Hz modulation. I have no idea where the carrier was in the filter passband because I did not know about detuning effect when those measurements were taken. So presumably those values could be as much as 0.2 or 0.3 microvolts high from the best sensitivity.

Intercepts

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3

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6
This ICOM radio is disabled for use below 1.6 MHz and requires expensive
mods to fix this problem of removing surface mount attenuators and
enable preamps.

The ICOM 746 series is now famous for its exploding transmitter as well
as its crude bandscope. Clearly these radios are not exactly the
finished product.
I personally like the radio despite its shortcomings below 1.6 Mhz and
you may read dozens of reports on the internet as to its transmitter
problems.

The modern technology at ICOM is going in the right direction no doubt
about it. The Racal is a very high end premium receiver. Lets just
remember that the ultimate AM performer to which the ICOM is compared to
is still the R390...50 year old technology...so lets not toss the word
obsolete 80's technology around too quickly.
Getting the weak stations: As I mentioned in the beginning of this
article, my 746Pro is measured at
0.6uV on MW. My NRD-525's are in the 0.4 – 0.5uV range. My R-390A is not
measured, but

from usage I'd say it's around 0.5uV (which is where a well-aligned R-390A should be. Mine is
well-aligned). The R75 (with Preamp 1 engaged) roughly equals the 746Pro. Those are numbers.
What about real life? Comparing the 746Pro with the R-390A and the 525's, I do note that the latter
radios are able to resolve an up-coming signal earlier than the 746Pro (and the R75). However,
when the signal begins to approach readable levels, there is no difference. So, in real life, there is
no signal I can hear with the R-390A and the NRD-525's that I can't hear with the 746Pro (and the
R75).
Conclusion: Located in an area where MW transmitters are very far away (and only one stable
groundwave signal, on 657 with a signal level of around S9+10, depending on antenna), sensitivity
is extremely important. A stock 746Pro with its crippled MW and LW, and non-working preamp on
MW, would be useless here even if all other properties of the receiver were outstanding. After
Dallas Lankford modified it to correct specifications, it is indeed a superb receiver for MW DX. I
haven't tested it much on SW, but I do not expect it to perform any worse on SW DX-ing than it
does on MW.
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HYPERLINK "http://www.dxing.info/equipment/icom_ic746_mjelde.pdf"http://www.dxing.info/equipment/icom_ic746_mjelde.pdf

Read this article for a real insight into this radio. You will find that this unit works no better than an R75 or NRD 525 or R390 on the weak ones, and that is exactly what I think we should all remember about it. Nice radio, crippled MW and LF, flawed transmitter, and no big step up

from the rest of the premium pack in real DX situs.

As I say, I like the radio, but not enough to feel bad if a well aligned R390 or RA6790GM is bringing home the goods while the ICOM is not. I have several receivers and whichever one is bringing home the goods is my favorite receiver at the time. I refuse to ignore the fact that there are times when a 50 year old boatanchor is bringing it home and that is why I have a rack full of receivers that are all excellent, if not dated technology. IMHO the RA6790GM is a bargain in the 750 to 800 range.

Dan Seven

-----Original Message-----
From: Tom C [mailto:afa1ir@yahoo.com]
Sent: Thursday, March 31, 2005 8:07 PM
To: Racal6790GM@...m
Subject: Re: [Racal6790GM] Looking for pristine Racal 6790/GM

To answer the question "are these receivers as good as they say?" and in particular, compared to an Icom IC-746, I would like to comment as follows:

I have in my possession two RACAL 6790's. One is half dead and it's going back where it came from. The other is borrowed and seems to work as well as it ever did. I have been listening to shortwave radios for 40 years. I've used Hammerlands, Hallicrafters, Collins, Panasonics, Icoms, a Harris and a Yaesu (and maybe some others I've forgotten). I have been a ham for 34 years. Based upon my experience with many radios over many years and based upon my experience with these two RACALs, it is my opinion that these are probably the most over-rated radios to be produced during my lifetime. An Icom 746 would run circles around one of these, as would almost any other modern receiver. Keep in mind that, while the RACAL's were cutting edge technology in the mid 1980's, and cost thousands of dollars, that technology is totally obsolete now. Except for someone willing to pay a lot for nostalgia, I can't imagine why anyone would buy one of these radios at the prices charged by the surplus houses. I imagine anyone who has paid $700- 800 for one of these may be reluctant to admit that. But, that's the way I see it.

Tom Carrigan
NE1R

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l6790GM-unsubscribe@yahoogroups.com

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"http://docs.yahoo.com/info/terms/"Yahoo! Terms of Service.

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No virus found in this incoming message.
Checked by AVG Anti-Virus.
Version: 7.0.308 / Virus Database: 266.9.0 - Release Date: 3/31/2005

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No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.308 / Virus Database: 266.9.0 - Release Date: 3/31/2005

218. Re: [Racal6790GM] Looking for pristine Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2005-04-01 04:14:54 UTC
From: Bjarne Mjelde
Topic: 211 Message: 218

Since I have been partly cited in Dan's post about the 746Pro (which is cut in this reply to avoid lengthy threads), and since I also own an RA6790/GM, I feel the need to make a few comments.
First: The 746Pro is not disabled below 1.6. It is desensitised by quite a few dB below 1.6 which is unacceptable for us who live in RF-free environments and need every dB available for MW DX. For others, its MW sensitivity may be perfectly adequate.
Second: The <1.6 re-sensitisation is not expensive. It requires soldering skill, but it doesn't cost money.
Third: The 746Pro TX doesn't explode. There have been a number of reports of one IC dying apparently because of insufficient cooling. There are differences between 746Pro owners whether this is a big problem or not. Of course, for us who uses it for reception only, the issue is irrelevant.

I bought an RA6790/GM from Wingerd last summer, and equipped it with Collins LSB and USB filters from Sherwood, + a 3.5 kHz ceramic filter built into an adapter. So how do the RA6790/GM and the 746Pro compare, the way I DX? From my location in Arctic Norway I mostly DX split MW frequencies (the Americas) or Asia/Pacific (non-splits). While the RA6790/GM is a very good receiver, and in most cases hear the same that my other receivers hear (NRD-525, R-390A, 746Pro, Telefunken E-1501), it does lack the versatility of, say the 746Pro with continously changing SSB bandwidths, audio and IF notch filters, passband tuning and noise blanker. So when the going gets tough, interference-wise, the 746Pro gets going. Interestingly enough, the R-390A too is ahead of the RA6790/GM, possibly because it is more sensitive and has a better AGC response.

I agree though that the RA6790/GM's AMSD is excellent, and has no need for an external device like the SE-3 (I've tried). For non-splits, the Racal provides excellent audio recovery and is a good performer.

--
From the world's northermost DX-er
Bjarne Mjelde, Berlevag, Arctic Norway
www.kongsfjord.no
blog: mjelde.blogspot.com

219. Cabinet-mount RA6790/GM

Yahoo group: Racal6790GM
Date: 2005-04-02 00:21:30 UTC
From: Bjarne Mjelde
Topic: 219 Message: 219

I have always meant that nineteen-inchers, when not rack-mounted, look better with a cabinet than without one. Schroff of Germany makes cabinets in different depths that are admirably suitable for the purpose of mounting receivers. I was lucky enough to buy several NIB cabinets on German Ebay some time ago for a fraction of their normal cost (they are quite expensive but with excellent build quality and surface finish). On the Photos section I have uploaded a picture of my RA6790/GM mounted in a 500mm deep 3U cabinet. Although the RA6790/GM doesn't seem to run very hot, I removed the top cover before mounting it. The depth ensures that all extremeties of the back side of the receiver are protected. I also found a 6U cabinet for my R-390A.

220. Re: [Racal6790GM] Cabinet-mount RA6790/GM

Yahoo group: Racal6790GM
Date: 2005-04-02 01:29:26 UTC
From: maxhdrm2
Topic: 219 Message: 220

Great looking cabinet! Any chance you would have a picture of the rear view
of cabinet? Was any modification necessary to the cabinet?
Max
----- Original Message -----
From: "Bjarne Mjelde" <bjarne.mjelde@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Friday, April 01, 2005 7:21 PM
Subject: [Racal6790GM] Cabinet-mount RA6790/GM

>
>
> I have always meant that nineteen-inchers, when not rack-mounted, look
> better with a cabinet than without one. Schroff of Germany makes
> cabinets in different depths that are admirably suitable for the
> purpose of mounting receivers. I was lucky enough to buy several NIB
> cabinets on German Ebay some time ago for a fraction of their normal
> cost (they are quite expensive but with excellent build quality and
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> my RA6790/GM mounted in a 500mm deep 3U cabinet. Although the
> RA6790/GM doesn't seem to run very hot, I removed the top cover before
> mounting it. The depth ensures that all extremeties of the back side
> of the receiver are protected. I also found a 6U cabinet for my
> R-390A.
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221. Re: [Racal6790GM] Cabinet-mount RA6790/GM

Yahoo group: Racal6790GM
Date: 2005-04-02 09:38:17 UTC
From: Bjarne Mjelde
Topic: 219 Message: 221

I will upload a rear view jpg during the weekend, I hadn't thought about that.
No, no modifications were needed, neither to the 3U nor to the 6U for
the R-390A.
One point of interest here is that unlike many other cabinets (such as
the Hammond RCBS cabinets), the top and bottom covers are in fact
removable, so if you need to work on the receiver you will likely not
need to remove it from the cabinet at all. Four screws per cover
(fastened on the sides, as you see from the pic). It should be
mentioned that my NIB cabinets came with four standard shape feet, but
no mounting screw set (available as extras but I suppose they can be
bought anywhere). Tiltable feet also extra.

One word of advice for anyone searching internet auctions for Schroff
cabinets is that the vast majority of 19" cabinets offered are NOT
designed to house 19" units but PCBs etc. They are not wide enough,
measuring 84TE width (I don't recall the US equivalent), so if you see
"ratiopac mit Fronblende, 3HE, 84TE", stay away. I got one by (my
own) mistake and am desperately trying to find out what to do with it
since nobody wants to buy it... The Comptec series of cabinets should
be safe.

They have a website on www.schroff.de. And no, I have no economic
interest in this appraisal of Schroff, nor am I going to sell one of
mine. But if you want state of the art housings for your state of the
art radios, this is it.

--
From the world's northernmost DX-er
Bjarne Mjelde, Berlevag, Arctic Norway
www.kongsfjord.no
blog: mjelde.blogspot.com

On Apr 2, 2005 3:29 AM, maxhdrm2 <maxhdrm2@...> wrote:
>
> Great looking cabinet! Any chance you would have a picture of the rear view
> of cabinet? Was any modification necessary to the cabinet?
> Max
> ----- Original Message -----
> From: "Bjarne Mjelde" <bjarne.mjelde@...>
> To: <Racal6790GM@yahoogroups.com>
> Sent: Friday, April 01, 2005 7:21 PM
> Subject: [Racal6790GM] Cabinet-mount RA6790/GM
>

222. RA6790/GM in Schroff cabinet pt II

Yahoo group: Racal6790GM
Date: 2005-04-03 17:00:47 UTC
From: Bjarne Mjelde
Topic: 222 Message: 222

As promised I have uploaded three jpg's in the Photos section with the RA6790/GM housed in a Schroff cabinet.

Bjarne Mjelde
Arctic Norway

223. RE: [Racal6790GM] Looking for pristine Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2005-04-04 16:10:31 UTC
From: Dan Seven
Topic: 211 Message: 223

I have a pristine one, all filters, extra memory battery as well as the rs232 computer control board as well as a nice manual and computer patch cable.

Dan Seven

-----Original Message-----
From: malucoelbejuco [mailto:malucoelbejuco@...]
Sent: Friday, March 25, 2005 12:49 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Looking for pristine Racal 6790/GM

Hi,

I am looking for a pristine Racal 6790/GM for my collection. If anyone is selling one or knows where I can get one, please let me know.

Yahoo! Groups Links

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No virus found in this incoming message.
Checked by AVG Anti-Virus.
Version: 7.0.308 / Virus Database: 266.8.6 - Release Date: 3/30/2005

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No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.308 / Virus Database: 266.9.1 - Release Date: 4/1/2005

224. 6790 GM R2174 B (P) URR MANUAL NEEDED

Yahoo group: Racal6790GM
Date: 2005-04-15 16:17:57 UTC
From: al_royce
Topic: 224 Message: 224

I need a copy of the manual/s for this VLF VHF receiver a variation of the Racal 6790 GM.
Thanks
Al

225. Re: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED

Yahoo group: Racal6790GM
Date: 2005-04-15 23:57:49 UTC
From: gewingerd
Topic: 224 Message: 225

Al,

The R2174B does not have a manual, it was owned by the US Gov and they bought all that were produced.

Thanks,
Gary
----- Original Message -----
From: "al_royce" <oscar873@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Friday, April 15, 2005 12:17 PM
Subject: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED

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> I need a copy of the manual/s for this VLF VHF receiver a variation of
> the Racal 6790 GM.
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> Al
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226. Re: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED

Yahoo group: Racal6790GM
Date: 2005-04-17 00:15:13 UTC
From: maxhdrm2
Topic: 224 Message: 226

Gary,
Just out of curiosity, What components are unique to 6790GM "b" model.
What components are shared, and how high into VHF does it receive?
Thanks, Max
Ps What are your current prices for a set of LCDs ?
----- Original Message -----
From: "gewingerd" <gewingerd@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Friday, April 15, 2005 7:57 PM
Subject: Re: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED

>
> Al,
>
> The R2174B does not have a manual, it was owned by the US Gov and they
> bought all that were produced.
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> Thanks,
> Gary
> ----- Original Message -----
> From: "al_royce" <oscar873@...>
> To: <Racal6790GM@yahoogroups.com>
> Sent: Friday, April 15, 2005 12:17 PM
> Subject: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED
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227. Re: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED

Yahoo group: Racal6790GM
Date: 2005-04-17 22:25:04 UTC
From: gewingerd
Topic: 224 Message: 227
Attachments: 1 described; binary payloads are missing from this source WARC

Max,
As far as I remember the receiver is only HF 20 KHz to 30 MHz

Please see attached for the configurations.

Thanks,
Gary
----- Original Message -----
From: "maxhdrm2" <maxhdrm2@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, April 16, 2005 5:15 PM
Subject: Re: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED

>
> Gary,
> Just out of curiosity, What components are unique to 6790GM "b" model.
> What components are shared, and how high into VHF does it receive?
> Thanks, Max
> Ps What are your current prices for a set of LCDs ?
> ----- Original Message -----
> From: "gewingerd" <gewingerd@...>
> To: <Racal6790GM@yahoogroups.com>
> Sent: Friday, April 15, 2005 7:57 PM
> Subject: Re: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED
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> >
> > Al,
> >
> > The R2174B does not have a manual, it was owned by the US Gov and they
> > bought all that were produced.
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> > Thanks,
> > Gary
> > ----- Original Message -----
> > From: "al_royce" <oscar873@...>
> > To: <Racal6790GM@yahoogroups.com>
> > Sent: Friday, April 15, 2005 12:17 PM
> > Subject: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED
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> > > I need a copy of the manual/s for this VLF VHF receiver a variation of
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228. Re: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED

Yahoo group: Racal6790GM
Date: 2005-04-17 22:29:19 UTC
From: gewingerd
Topic: 224 Message: 228
Attachments: 2 described; binary payloads are missing from this source WARC

```
----- Original Message -----
From: "gewingerd" <gewingerd@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Sunday, April 17, 2005 3:25 PM
Subject: Re: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED

> Max,
> As far as I remember the receiver is only HF 20 KHz to 30 MHz
>
> Please see attached for the configurations.
>
> Thanks,
> Gary
> ----- Original Message -----
> From: "maxhdrm2" <maxhdrm2@...>
> To: <Racal6790GM@yahoogroups.com>
> Sent: Saturday, April 16, 2005 5:15 PM
> Subject: Re: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED
>
>
>
> >
> > Gary,
> > Just out of curiosity, What components are unique to 6790GM "b" model.
> > What components are shared, and how high into VHF does it receive?
> > Thanks, Max
> > Ps What are your current prices for a set of LCDs ?
> > ----- Original Message -----
> > From: "gewingerd" <gewingerd@...>
> > To: <Racal6790GM@yahoogroups.com>
> > Sent: Friday, April 15, 2005 7:57 PM
> > Subject: Re: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED
> >
> >
> > >
> > > Al,
> > >
> > > The R2174B does not have a manual, it was owned by the US Gov and
they
> > > bought all that were produced.
> > >
> > > Thanks,
> > > Gary
> > > ----- Original Message -----
> > > From: "al_royce" <oscar873@...>
```

> > > To: <Racal6790GM@yahoogroups.com>
> > > Sent: Friday, April 15, 2005 12:17 PM
> > > Subject: [Racal6790GM] 6790 GM R2174 B (P) URR MANUAL NEEDED
> > >
> > >
> > > > >
> > > > >
> > > > > I need a copy of the manual/s for this VLF VHF receiver a variation
of
> > > > > the Racal 6790 GM.
> > > > > Thanks
> > > > > Al
> > > > >
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229. Re: Looking for pristine Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2005-04-22 16:12:51 UTC
From: ciceroio
Topic: 211 Message: 229

--- In Racal6790GM@yahoogroups.com, Tom C <afa1ir@y...> wrote:
> To answer the question "are these receivers as good as they say?"
and in particular, compared to an Icom IC-746, I would like to
comment as follows:
> Hello,
I use abitually some RX: a Collins 651S1, a Racal 1772 , a 6790
and i had a Racal 17L and a Collins 390a.
Racal 17 and r390a are from another planet! the first is more easy to
use, the second is the maximum standard in receiving.
in the solid-state era Collins 651s1 is a lot of good components
(Motorola - Dubilier - Cannon etc.) well designed receiver with good
signal handling :the TOP at IF selectivity and audio recovery level.
SSB in Collins is a mistical experience.
Racal 1772 is the better of the group. Mainly for the first FET
mixer, (the second is not a 1496 IC like 6790) and have a TUNED
PRESELECTOR in front. Last in perforance is 6790 an economical rx
designed for USA market with well known problems at CPU board and
Tantal condenser etc.I like his PBT but if you want the best RX you
must turn your head on other object.
Much better a 1772 a 651S1 and a tuned preselector or an EK 56/4
Rohde&Schwarz!
Ciao from Ciceroio

> I have in my possession two RACAL 6790's. One is half dead and it's
going back where it came from. The other is borrowed and seems to
work as well as it ever did. I have been listening to shortwave
radios for 40 years. I've used Hammerlands, Hallicrafters, Collins,
Panasonics, Icoms, a Harris and a Yaesu (and maybe some others I've
forgotten). I have been a ham for 34 years. Based upon my experience
with many radios over many years and based upon my experience with
these two RACALs, it is my opinion that these are probably the most
over-rated radios to be produced during my lifetime. An Icom 746
would run circles around one of these, as would almost any other
modern receiver. Keep in mind that, while the RACAL's were cutting
edge technology in the mid 1980's, and cost thousands of dollars,
that technology is totally obsolete now. Except for someone willing
to pay a lot for nostalgia, I can't imagine why anyone would buy one
of these radios at the prices charged by the surplus
> houses. I imagine anyone who has paid $700- 800 for one of these
may be reluctant to admit that. But, that's the way I see it.
>
> Tom Carrigan
> NE1R
>
>

>
> ---------------------------------
> Yahoo! Messenger
> Show us what our next emoticon should look like. Join the fun.

231. Seeking Senior Testing Pros: A Global Communications Leader. Gurgaon, India

Yahoo group: Racal6790GM
Date: 2005-05-03 09:29:50 UTC
From: alphaeus_telecom
Topic: 231 Message: 231

Hi,

We have number of requirements for our client, a Global Communications Solution Provider, in the Telecom Domain. We are seeking Testing professionals from blue-chip companies with experience ranging from 1 to 9 years (for Sr. Engineers/Leads/Managers)

Details Below:

1.UE Testing
2.VOIP Testing
3.BTS Testing
4.Wireless Testing:
5.DSP Testing
6.Symbian/WinCE

Qualification: BS/MS (Engineering) from top universities (CGPA: 8+)

Location: Gurgaon, India

Interested candidates who meet the requirements (mentioned below) are requested to send in their profiles to visma @ alphaeus.com

Thanks,
Visma
Alphaeus HR

Ph No: 080-51216416
Visma @ alphaeus.com

Detailed Job Specifications:

1.UE Testing

Skills required:

1.Knowledge of 3G test scripting using TTCN2, and Air Interface concepts.
2.Experience in 3G/GSM/GPRS-stack testing.
3.Conformance testing and field & integration testing of the 3G UE stack.
4.Experience in using Protocol Analyzers (in tools like Anite, Anritsu, Racal etc).
5.Experience in test planning and execution activities.

2.VOIP Testing

Skills Required:

1.Experience of a telecommunications system environment.
2.Testing software for any of the protocol stacks and systems in VOIP domain - for MEGACO, SIGTRAN, H.323, MGCP, MG Gateways, MGC systems /protocols
3.Experience of protocol, interfaces, system level and end-to-end testing.
4.Knowledge of any of the protocol stacks and systems in the VOIP technology.
5.Experience of working testing life cycle.

3.BTS Testing

Skills required:

1.Network Verification/Release Testing activities for the BTS Software
2.Knowledge of GSM/GPRS Call flows and Air Interface concepts.
3.Has GSM/GPRS Network Implementation/Installation Experience.
4.Has experience in using Protocol Analyzers and other test tools.
5.The candidate(s) will be responsible for product verification testing of customer specific SS7 Signaling Transfer Point (Tekelec's EAGLE STP).
6.Familiarity with 2G-2.5G-EDGE technology

4.Wireless Testing

Skills required:

1.Function testing of Real 3G Radio Network Controller.
2.Experience in Mobile Communication/2G system / CDMA / functional testing of Telecom systems.
3.Knowledge of ATM, SS#7, 3G, TTCN scripting.
4.Experience on Linux/ Solaris.
5.Worked on Nokia systems.
6.Technical and People management for Integration /functional testing of Real 3G Radio Network Controller.

5.DSP Testing

Skills required:

1.GSM/GPRS/EDGE BTS Software Testing with focus on debugging Lucent/Agere/TI DSP assembly legacy code.
2.Hands on in BTS setup & configuration and fault/performance testing
3.Knowledge on usage of BTS test softwares.
4.Ability to use of PVCS/Clearcase

6.Symbian/WinCE

Skills required:

1.2-3 yrs work experience in WinCE related/ Symbian related Handset software development.

2.Very good knowledge of WinCE/ Symbian APIs, SDKs, Code Warrior and J2ME
3.Very good knowledge of Object oriented design and C++.
4.Preferably knowledge of TI-OMAP platform

P.S: We have multiple opportunities - please forward my contact details to your friends/colleagues who might be interested in this opportunity. We also have an interesting campaign currently on - and you just might get to own a brand new "Apple iPod". For more details check www.alphaeus.com

232. Advertisements in this Group?

Yahoo group: Racal6790GM
Date: 2005-05-06 18:04:50 UTC
From: mvlprasad
Topic: 232 Message: 232

Hello Moderator:
I see couple of ads for refinancing houses and testing jobs in this
Group?
Could you please help keep the messages limited to Racal RA6790 radios
only?

Thanks,
-Prasad

233. Spam

Yahoo group: Racal6790GM
Date: 2005-05-06 21:11:05 UTC
From: maxhdrm2
Topic: 233 Message: 233

Hello Prasad,
I hope life is treating you well! Glad to see you are still active with the group. Sorry about the spam. I made a few adjustments, hopefully we won't see anymore advertisements.
Thanks, Max

234. Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2005-05-06 21:34:41 UTC
From: maxhdrm2
Topic: 234 Message: 234

Gary,
Last year I had an A-7 failure and subsequently replaced the offending A-7 board. Ever since I have noticed that when I rotate the tuning knob in the USB and LSB modes the DS-3 L.E.D. on the A-9 board lights up for a second and I get a simutanious chirp in the speaker. Bite passes.
I read the circuit descriptions for the A-8 and A-7 but I'm not sure what would light DS-3. I'm thinking it's a PLL lockup that is a little slow? The TXCO is perfectly aligned as is the the rest of the Oscillators. Have you ever seen this problem before?
This is a fairly early 6790 with the older firmware and no ECNs.
Thanks, Max

235. Re: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2005-05-06 22:52:38 UTC
From: Dan Rae
Topic: 234 Message: 235

Max, DS3, (the third led counting out from the middle of the board), indicates an out of lock condition on the BFO loop, which is on the A8 board. Once in a particular mode, tuning should not have any effect on this loop. In AM mode that led should be on, is it in fact? To further complicate matters the data latches for the bfo are on the front panel A9 board, and that's where I'd start looking. No doubt Gary will come up with the solution, but it's an odd one!

73
Dan
ac6ao / g3ncr

maxhdrm2 wrote:

Gary,
Last year I had an A-7 failure and subsequently replaced the offending
A-7 board. Ever since I have noticed that when I rotate the tuning knob
in the USB and LSB modes the DS-3 L.E.D. on the A-9 board lights up for
a second and I get a simutanious chirp in the speaker. Bite passes.
I read the circuit descriptions for the A-8 and A-7 but I'm not sure
what would light DS-3. I'm thinking it's a PLL lockup that is a little
slow? The TXCO is perfectly aligned as is the the rest of the
Oscillators. Have you ever seen this problem before?
This is a fairly early 6790 with the older firmware and no ECNs.
Thanks, Max

236. Re: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2005-05-07 00:02:58 UTC
From: maxhdrm2
Topic: 234 Message: 236

Dan, Thanks for your input. The DS-3 does light continuously when in AM mode. I did a board swap with a known good A-8 and this little anomaly remained. I also swapped out the A-7 as I have several, one that is brand new This might be one of those strange things I could live with because the receiver works very well otherwise. Maybe I should start looking for a good A-9. It looks like the chips in this part of the circuit are fairly common.
Thanks again, Max
----- Original Message -----
From: Dan Rae
To: Racal6790GM@yahoogroups.com
Sent: Friday, May 06, 2005 6:52 PM
Subject: Re: [Racal6790GM] Technical Question for Gary

Max, DS3, (the third led counting out from the middle of the board), indicates an out of lock condition on the BFO loop, which is on the A8 board. Once in a particular mode, tuning should not have any effect on this loop. In AM mode that led should be on, is it in fact? To further complicate matters the data latches for the bfo are on the front panel A9 board, and that's where I'd start looking. No doubt Gary will come up with the solution, but it's an odd one!

73
Dan
ac6ao / g3ncr

maxhdrm2 wrote:

Gary,
Last year I had an A-7 failure and subsequently replaced the offending
A-7 board. Ever since I have noticed that when I rotate the tuning knob
in the USB and LSB modes the DS-3 L.E.D. on the A-9 board lights up for
a second and I get a simutanious chirp in the speaker. Bite passes.
I read the circuit descriptions for the A-8 and A-7 but I'm not sure
what would light DS-3. I'm thinking it's a PLL lockup that is a little
slow? The TXCO is perfectly aligned as is the the rest of the
Oscillators. Have you ever seen this problem before?
This is a fairly early 6790 with the older firmware and no ECNs.
Thanks, Max

Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/

b.. To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

237. Re: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2005-05-07 18:31:10 UTC
From: oscar873@aol.com
Topic: 234 Message: 237

Max,
I have all ways wanted to know where the chart is for these Leds and what they mean?
Al

238. Re: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2005-05-07 19:04:52 UTC
From: Dan Rae
Topic: 234 Message: 238

oscar873@... wrote:

Max,
I have all ways wanted to know where the chart is for these Leds and what they mean?
Al

These LEDs when lit up, show in more detail than the panel led, which of the loops is out of lock.
From the center of the board to the edge:
1 the reference loop on A8
2 The 1st LO on A7
3 The bfo on A8
4 does nothing, it's called "spare" in the book...
dr

239. Re: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2005-05-07 22:14:15 UTC
From: maxhdrm2
Topic: 234 Message: 239

Al,
The LEDs are shown on the A-9 schematic on sheet 3. Also 4.3.8 par. F in the circuit description. I have seen these LEDs flash during BITE test.
Thanks Max
----- Original Message -----
From: oscar873@...
To: Racal6790GM@yahoogroups.com
Sent: Saturday, May 07, 2005 2:31 PM
Subject: Re: [Racal6790GM] Technical Question for Gary

Max,
I have all ways wanted to know where the chart is for these Leds and what they mean?
Al

Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/

b.. To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

240. Seeking Senior Testing Pros: A Global Communications Leader. Gurgaon, India

Yahoo group: Racal6790GM
Date: 2005-05-16 07:20:57 UTC
From: alphaeus_telecom
Topic: 231 Message: 240

Hi,

We have number of requirements for our client, a Global Communications Solution Provider, in the Telecom Domain. We are seeking Testing professionals from blue-chip companies with experience ranging from 1 to 9 years (for Sr. Engineers/Leads/Managers)

Details Below:

1.UE Testing
2.VOIP Testing
3.BTS Testing
4.Wireless Testing:
5.DSP Testing
6.Symbian/WinCE

Qualification: BS/MS (Engineering) from top universities (CGPA: 8+)

Location: Gurgaon, India

Interested candidates who meet the requirements (mentioned below) are requested to send in their profiles to visma @ alphaeus.com

Thanks,
Visma
Alphaeus HR

Ph No: 080-51216416
Visma @ alphaeus.com

Detailed Job Specifications:

1.UE Testing

Skills required:

1.Knowledge of 3G test scripting using TTCN2, and Air Interface concepts.
2.Experience in 3G/GSM/GPRS-stack testing.
3.Conformance testing and field & integration testing of the 3G UE stack.
4.Experience in using Protocol Analyzers (in tools like Anite, Anritsu, Racal etc).
5.Experience in test planning and execution activities.

2.VOIP Testing

Skills Required:

1.Experience of a telecommunications system environment.
2.Testing software for any of the protocol stacks and systems in VOIP domain - for MEGACO, SIGTRAN, H.323, MGCP, MG Gateways, MGC systems /protocols
3.Experience of protocol, interfaces, system level and end-to-end testing.
4.Knowledge of any of the protocol stacks and systems in the VOIP technology.
5.Experience of working testing life cycle.

3.BTS Testing

Skills required:

1.Network Verification/Release Testing activities for the BTS Software
2.Knowledge of GSM/GPRS Call flows and Air Interface concepts.
3.Has GSM/GPRS Network Implementation/Installation Experience.
4.Has experience in using Protocol Analyzers and other test tools.
5.The candidate(s) will be responsible for product verification testing of customer specific SS7 Signaling Transfer Point (Tekelec's EAGLE STP).
6.Familiarity with 2G-2.5G-EDGE technology

4.Wireless Testing

Skills required:

1.Function testing of Real 3G Radio Network Controller.
2.Experience in Mobile Communication/2G system / CDMA / functional testing of Telecom systems.
3.Knowledge of ATM, SS#7, 3G, TTCN scripting.
4.Experience on Linux/ Solaris.
5.Worked on Nokia systems.
6.Technical and People management for Integration /functional testing of Real 3G Radio Network Controller.

5.DSP Testing

Skills required:

1.GSM/GPRS/EDGE BTS Software Testing with focus on debugging Lucent/Agere/TI DSP assembly legacy code.
2.Hands on in BTS setup & configuration and fault/performance testing
3.Knowledge on usage of BTS test softwares.
4.Ability to use of PVCS/Clearcase

6.Symbian/WinCE

Skills required:

1.2-3 yrs work experience in WinCE related/ Symbian related Handset software development.

2.Very good knowledge of WinCE/ Symbian APIs, SDKs, Code Warrior and J2ME
3.Very good knowledge of Object oriented design and C++.
4.Preferably knowledge of TI-OMAP platform

P.S: We have multiple opportunities - please forward my contact details to your friends/colleagues who might be interested in this opportunity. We also have an interesting campaign currently on - and you just might get to own a brand new "Apple iPod". For more details check www.alphaeus.com

241. Re: [Racal6790GM] Seeking Senior Testing Pros: A Global Communications Leader. Gurgaon, India

Yahoo group: Racal6790GM
Date: 2005-05-16 16:33:38 UTC
From: maxhdrm2
Topic: 231 Message: 241

Dear alphaeus_telecom@... This post is not even remotely on topic.
As list owner I must ask that you keep your posting at least vaguely related
to Racal receivers!
Thankyou.
Maxhdrm2@...
----- Original Message -----
From: "alphaeus_telecom" <alphaeus_telecom@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Monday, May 16, 2005 3:20 AM
Subject: [Racal6790GM] Seeking Senior Testing Pros: A Global Communications
Leader. Gurgaon, India

> Hi,
>
> We have number of requirements for our client, a Global Communications
> Solution Provider, in the Telecom Domain. We are seeking Testing
> professionals from blue-chip companies with experience ranging from
> 1 to 9 years (for Sr. Engineers/Leads/Managers)
>
> Details Below:
>
> 1.UE Testing
> 2.VOIP Testing
> 3.BTS Testing
> 4.Wireless Testing:
> 5.DSP Testing
> 6.Symbian/WinCE
>
> Qualification: BS/MS (Engineering) from top universities (CGPA: 8+)
>
> Location: Gurgaon, India
>
> Interested candidates who meet the requirements (mentioned below) are
> requested to send in their profiles to visma @ alphaeus.com
>
> Thanks,
> Visma
> Alphaeus HR
>
> Ph No: 080-51216416
> Visma @ alphaeus.com
>
>
> Detailed Job Specifications:

>
> 1.UE Testing
>
> Skills required:
>
> 1.Knowledge of 3G test scripting using TTCN2, and Air Interface
> concepts.
> 2.Experience in 3G/GSM/GPRS-stack testing.
> 3.Conformance testing and field & integration testing of the 3G UE
> stack.
> 4.Experience in using Protocol Analyzers (in tools like Anite,
> Anritsu, Racal etc).
> 5.Experience in test planning and execution activities.
>
>
> 2.VOIP Testing
>
>
> Skills Required:
>
> 1.Experience of a telecommunications system environment.
> 2.Testing software for any of the protocol stacks and systems in
> VOIP domain - for MEGACO, SIGTRAN, H.323, MGCP, MG Gateways, MGC
> systems /protocols
> 3.Experience of protocol, interfaces, system level and end-to-end
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> 4.Knowledge of any of the protocol stacks and systems in the VOIP
> technology.
> 5.Experience of working testing life cycle.
>
>
> 3.BTS Testing
>
> Skills required:
>
> 1.Network Verification/Release Testing activities for the BTS Software
> 2.Knowledge of GSM/GPRS Call flows and Air Interface concepts.
> 3.Has GSM/GPRS Network Implementation/Installation Experience.
> 4.Has experience in using Protocol Analyzers and other test tools.
> 5.The candidate(s) will be responsible for product verification
> testing of customer specific SS7 Signaling Transfer Point (Tekelec's
> EAGLE STP).
> 6.Familiarity with 2G-2.5G-EDGE technology
>
>
> 4.Wireless Testing
>
> Skills required:
>
> 1.Function testing of Real 3G Radio Network Controller.

> 2.Experience in Mobile Communication/2G system / CDMA / functional
> testing of Telecom systems.
> 3.Knowledge of ATM, SS#7, 3G, TTCN scripting.
> 4.Experience on Linux/ Solaris.
> 5.Worked on Nokia systems.
> 6.Technical and People management for Integration /functional
> testing of Real 3G Radio Network Controller.
>
>
> 5.DSP Testing
>
> Skills required:
>
> 1.GSM/GPRS/EDGE BTS Software Testing with focus on debugging
> Lucent/Agere/TI DSP assembly legacy code.
> 2.Hands on in BTS setup & configuration and fault/performance testing
> 3.Knowledge on usage of BTS test softwares.
> 4.Ability to use of PVCS/Clearcase
>
>
> 6.Symbian/WinCE
>
> Skills required:
>
> 1.2-3 yrs work experience in WinCE related/ Symbian related Handset
> software development.
> 2.Very good knowledge of WinCE/ Symbian APIs, SDKs, Code Warrior and
> J2ME
> 3.Very good knowledge of Object oriented design and C++.
> 4.Preferably knowledge of TI-OMAP platform
>
>
>
> P.S: We have multiple opportunities - please forward my contact
> details to your friends/colleagues who might be interested in this
> opportunity. We also have an interesting campaign currently on - and
> you just might get to own a brand new "Apple iPod". For more details
> check www.alphaeus.com
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> Yahoo! Groups Links
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242. Need Nomenclature tag

Yahoo group: Racal6790GM
Date: 2005-05-31 03:01:22 UTC
From: aidehua@aol.com
Topic: 242 Message: 242

Looking for that nomenclature tag that goes on the front of the radio (besides Hank, who wants $30!)......Your help is appreciated.

73,
Ed
aidehua@... (mailto:aidehua@...)

243. Re: [Racal6790GM] Need Nomenclature tag

Yahoo group: Racal6790GM
Date: 2005-05-31 15:45:16 UTC
From: Bill Turini
Topic: 242 Message: 243

Try Gary Weingard. I purchased mine from him for quite a bit less.

>
> Looking for that nomenclature tag that goes on the front of the radio
> (besides Hank, who wants $30!).....Your help is appreciated.
>
> 73,
> Ed
> _aidehua@..._ (mailto:aidehua@...)
>
>

--
NeoMail - http://neomail.sourceforge.net

244. Re: [Racal6790GM] Need Nomenclature tag

Yahoo group: Racal6790GM
Date: 2005-05-31 15:48:08 UTC
From: aidehua@aol.com
Topic: 242 Message: 244

Thanks....

Ed

245. Fault Indicator

Yahoo group: Racal6790GM
Date: 2005-06-13 22:18:54 UTC
From: milradman
Topic: 245 Message: 245

I have recently purchased a RA6970/GM and was wondering if it is a common occurance that the fault indicator momentarily comes on for about a second when powering the receiver on. I also noticed that it has come on for just a second when changing modes (LSB to CW), though that has happened just once since I have used it. I don't see any documentation on this in the manual or anything about it on the web and would like some insight. Thanks.

246. Re: [Racal6790GM] Fault Indicator

Yahoo group: Racal6790GM
Date: 2005-06-13 22:28:53 UTC
From: Dan Rae
Topic: 245 Message: 246

milradman wrote:

> I have recently purchased a RA6970/GM and was wondering if it is a
> common occurance that the fault indicator momentarily comes on for
> about a second when powering the receiver on. I also noticed that it
> has come on for just a second when changing modes (LSB to CW), though
> that has happened just once since I have used it. I don't see any
> documentation on this in the manual or anything about it on the web and
> would like some insight. Thanks.
>

Seems pretty much normal to me. I've got three here and they all come on for about 200 milliseconds when you turn on. If it gets to the point where it's staying on longer, then you may have a problem... It could be that one of the loops is near to it's limit, and could benefit from some alignment, but if the light is off the rest of the time, then you are basically OK, I'd have thought.

73
Dan
ac6ao / g3ncr

247. Re: Fault Indicator

Yahoo group: Racal6790GM
Date: 2005-06-14 12:12:51 UTC
From: milradman
Topic: 245 Message: 247

Thanks Dan... I was told that it had been re-aligned prior to purchasing it so it is probably fine. Under what type of circumstances would it trigger the fault indicator and would this fault indication be something that BITE would not show when it was run? After reading the manual, I see that BITE does not test some modules/circuits. Any other documentation that can be found on this, perhaps the Technical manual?
BTW, I was very glad to see a support group for this receiver and look forward to all posts.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@v...> wrote:
>
>
> milradman wrote:
>
> > I have recently purchased a RA6970/GM and was wondering if it is a
> > common occurance that the fault indicator momentarily comes on for
> > about a second when powering the receiver on. I also noticed that
it
> > has come on for just a second when changing modes (LSB to CW),
though
> > that has happened just once since I have used it. I don't see any
> > documentation on this in the manual or anything about it on the
web and
> > would like some insight. Thanks.
> >
> Seems pretty much normal to me. I've got three here and they all
come on
> for about 200 milliseconds when you turn on. If it gets to the
point
> where it's staying on longer, then you may have a problem... It
could
> be that one of the loops is near to it's limit, and could benefit
from
> some alignment, but if the light is off the rest of the time, then
you
> are basically OK, I'd have thought.
>
> 73
> Dan
> ac6ao / g3ncr

248. Re: [Racal6790GM] Re: Fault Indicator

Yahoo group: Racal6790GM
Date: 2005-06-14 12:41:41 UTC
From: mstangelo@comcast.net
Topic: 245 Message: 248

The fault indicator indicates one of the phase locked loop synthesizers is out of lock. There are additional internal LED's located on the back of the front panel pc board which indicate which synthesizer module is out of lock. You have to take the top cover off to see these leds. Look at the internal LED's while the front LED is illuminated.

Mike N2MS

---------- Original message ----------

> Thanks Dan... I was told that it had been re-aligned prior to
> purchasing it so it is probably fine. Under what type of
> circumstances would it trigger the fault indicator and would this
> fault indication be something that BITE would not show when it was
> run? After reading the manual, I see that BITE does not test some
> modules/circuits. Any other documentation that can be found on this,
> perhaps the Technical manual?
> BTW, I was very glad to see a support group for this receiver and
> look forward to all posts.

249. Re: [Racal6790GM] Re: Fault Indicator

Yahoo group: Racal6790GM
Date: 2005-06-15 10:48:17 UTC
From: maxhdrm2
Topic: 245 Message: 249

An easy way to see the fault indicators inside the RX., with the top cover removed place the oscillator source switch on the rear panel to external. That should light up three of the four LEDs making them easy to see.
Max
----- Original Message -----
From: mstangelo@...
To: Racal6790GM@yahoogroups.com ; Racal6790GM@yahoogroups.com
Cc: milradman
Sent: Tuesday, June 14, 2005 8:41 AM
Subject: Re: [Racal6790GM] Re: Fault Indicator

The fault indicator indicates one of the phase locked loop synthesizers is out of lock. There are additional internal LED's located on the back of the front panel pc board which indicate which synthesizer module is out of lock. You have to take the top cover off to see these leds. Look at the internal LED's while the front LED is illuminated.

Mike N2MS

-------------- Original message --------------

> Thanks Dan... I was told that it had been re-aligned prior to
> purchasing it so it is probably fine. Under what type of
> circumstances would it trigger the fault indicator and would this
> fault indication be something that BITE would not show when it was
> run? After reading the manual, I see that BITE does not test some
> modules/circuits. Any other documentation that can be found on this,
> perhaps the Technical manual?
> BTW, I was very glad to see a support group for this receiver and
> look forward to all posts.

Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/

b.. To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com

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250. Custom cabinets for RA6790/GM

Yahoo group: Racal6790GM
Date: 2005-06-18 05:05:14 UTC
From: roberts50000
Topic: 250 Message: 250

I wanted to let the group know I am having some custom steel cabinets made up to fit the RA6790/GM by Hammond Mfg. These will be 19 inches deep and are 3RU high for the front panel, with a powder coat black finish. They have mounting rails in the front and back and use the tinnerman-type nuts to mount the front panel with #10 machine screws. One nice feature of the Hammond cabinets is there is about 7/8 inch of space in the underside where one could mount a couple of thin cooling fans to circulate some air up through the radio chassis if wanted. You would need to punch some holes in the bottom to do this. If they were set to run at low speed they would be very quiet. That would be an ideal arrangement to cool a receiver like the Collins HF-2050 that runs very hot if not air-cooled. I have posted 2 photos of a similar cabinet in the photo section. The cabinet shown is actually 21-1/2 inches deep that I had made up to fit the extra long Cubic R3030/R2411 series of receivers. I am having another set made up just to fit the RA6790/GM that will be 19 inches deep that looks identical to the one shown. To properly mount the 6790 the cabinet will need to have some 1/8 inch thick aluminum angle stock rail pieces mounted on each side of the cabinet bottom to properly lift the chassis in alignment with the front panel cutout. If you look at the bottom of the 6790 you will see it is raised and not quite flush with the bottom edge of the front panel. If the rails are not used it would misalign with the front panel and put undue strain on the chassis when tightening the front panel bolts. Keep this in mind when looking to use any cabinet with a 6790. I may have a few extra cabinets and sets of rails when I have all the parts assembled probably sometime this summer. If anyone is interested in one of the extras they can contact me off list. 73 Todd Roberts WD4NGG.

251. possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-18 21:18:57 UTC
From: wb3fau1955
Topic: 251 Message: 251

Hello to the group- already have had some contact with Gary, as he feels confident he can fix a hamfest special, in need of help. I think I should download a condensed manual for some assistance- in as much as do i really want one of these? The best item I have now is a Drake R4A. I am told the 6790GM will "blow it away". Some input would be appreciated. I have used all sorts of communications receivers- I guess i am some-what addicted to them. I like my Drake, but i also like some older tube stuff too- esspecially the audio from BA receivers. But I have been told, I can "hear" stuff on a 6790gm, that i can't on some of my favorites. Well, i also got to this users group, and found a lot of people fixing these. Naturally, i am concerned about reliability- if these break a lot, i am going to pass on buying this. So, talk to me folks. Russ- wb3fau in Erie.

252. Re: [Racal6790GM] possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-19 01:51:03 UTC
From: machine.age@juno.com
Topic: 251 Message: 252

If you have to agonize over it, pass on it.

jme

-- "wb3fau1955" <wb3fau@...> wrote:
Hello to the group- already have had some contact with Gary,
as he feels confident he can fix a hamfest special, in need
of help. I think I should download a condensed manual for
some assistance- in as much as do i really want one of these?
The best item I have now is a Drake R4A. I am told the 6790GM
will "blow it away". Some input would be appreciated. I have
used all sorts of communications receivers- I guess i am some-what
addicted to them. I like my Drake, but i also like some older
tube stuff too- esspecially the audio from BA receivers. But I
have been told, I can "hear" stuff on a 6790gm, that i can't
on some of my favorites. Well, i also got to this users group,
and found a lot of people fixing these. Naturally, i am
concerned about reliability- if these break a lot, i am going to
pass on buying this. So, talk to me folks. Russ- wb3fau in Erie.

Yahoo! Groups Links

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253. Re: buying a 6790GM

Yahoo group: Racal6790GM
Date: 2005-06-19 17:31:54 UTC
From: Walter Salmaniw
Topic: 253 Message: 253

At 05:39 AM 6/19/2005, you wrote:

>Hello to the group- already have had some contact with Gary,
>as he feels confident he can fix a hamfest special, in need
>of help. I think I should download a condensed manual for
>some assistance- in as much as do i really want one of these?
>The best item I have now is a Drake R4A. I am told the 6790GM
>will "blow it away". Some input would be appreciated. I have
>used all sorts of communications receivers- I guess i am some-what
>addicted to them. I like my Drake, but i also like some older
>tube stuff too- esspecially the audio from BA receivers. But I
>have been told, I can "hear" stuff on a 6790gm, that i can't
>on some of my favorites. Well, i also got to this users group,
>and found a lot of people fixing these. Naturally, i am
>concerned about reliability- if these break a lot, i am going to
>pass on buying this. So, talk to me folks. Russ- wb3fau in Erie.
I am very sceptical that the 6790 will hear anything more than your other good communications receivers. I have had perhaps 20 receivers or more over the past 10 years. It is a very rare occurence for one receiver to hear something that the others are unable to. My own personal opinion is that the 6790 can be very variable. Some are decent performers, and others duds. This is not the case with the 7 or so Collins HF-2050s I've owned. They were very consistent performers....identical to my ears. One 6790 driver, who like me has owned many dx rigs sold his as he considered the performance only so-so for his purposes. (For him the Icom 75, with KIWA mods outperformed the 6790, which had been "supercharged" with roofing filters). He sold his on eBay. Bottom line, don't expect miracles.....Walt Salmaniw, Victoria, BC

254. Re: [Racal6790GM] Re: buying a 6790GM

Yahoo group: Racal6790GM
Date: 2005-06-19 20:07:11 UTC
From: Bjarne Mjelde
Topic: 253 Message: 254

I have to second Walt on this issue. I have, and have had, a number
of amateur and pro receivers, like the NRD-525, R-390A, Telefunken
E-1501, Icom 746Pro, Icom R75 etc, and of course the Racal. The
RA6790/GM, although a very good
receiver, can't hear more than those above. Actually it can't hear
much less either, confirming Walt's assumption that what you can hear
on one good HF receiver, you can (for the most part) hear on any good
HF receiver. If you buy the RA6790/GM with the expectation that it
will outperform your other rigs, you're in for a disappointment.

Regards,

--
From The World's Northernmost DX-er
Bjarne Mjelde
Berlevag, Arctic Norway
www.kongsfjord.no
weblog: mjelde.blogspot.com

On 6/19/05, Walter Salmaniw <salmaniw@shaw.ca> wrote:
> At 05:39 AM 6/19/2005, you wrote:
>
>
> Hello to the group- already have had some contact with Gary,
> as he feels confident he can fix a hamfest special, in need
> of help. I think I should download a condensed manual for
> some assistance- in as much as do i really want one of these?
> The best item I have now is a Drake R4A. I am told the 6790GM
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> used all sorts of communications receivers- I guess i am some-what
> addicted to them. I like my Drake, but i also like some older
> tube stuff too- esspecially the audio from BA receivers. But I
> have been told, I can "hear" stuff on a 6790gm, that i can't
> on some of my favorites. Well, i also got to this users group,
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> pass on buying this. So, talk to me folks. Russ- wb3fau in Erie.
> I am very sceptical that the 6790 will hear anything more than your other
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> the past 10 years. It is a very rare occurence for one receiver to hear
> something that the others are unable to. My own personal opinion is that
> the 6790 can be very variable. Some are decent performers, and others duds.
> This is not the case with the 7 or so Collins HF-2050s I've owned. They
> were very consistent performers....identical to my ears. One 6790 driver,
> who like me has owned many dx rigs sold his as he considered the performance
> only so-so for his purposes. (For him the Icom 75, with KIWA mods

> outperformed the 6790, which had been "supercharged" with roofing filters).
> He sold his on eBay. Bottom line, don't expect miracles.....Walt
> Salmaniw, Victoria, BC
> _____
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From the world's northernmost DX-er
Bjarne Mjelde, Berlevag, Arctic Norway
www.kongsfjord.no
blog: mjelde.blogspot.com

255. RE: [Racal6790GM] possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-20 14:07:04 UTC
From: Carcia, Francis A HS
Topic: 251 Message: 255

There is no magic in the 6790 but a good one is a nice receiver for the time frame it was produced. I see many people have different views on this receiver based on the unit they receive. I've seen junk and good units. The wrong audio level
will make the audio sound very bad and I have a friend who sold his unit for that reason.

-----Original Message-----
From: machine.age@... [mailto:machine.age@...]
Sent: Saturday, June 18, 2005 9:51 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] possible acquisition of Racal RA6790GM

If you have to agonize over it, pass on it.

jme

-- "wb3fau1955" <wb3fau@...> wrote:
Hello to the group- already have had some contact with Gary, as he feels confident he can fix a hamfest special, in need of help. I think I should download a condensed manual for some assistance- in as much as do i really want one of these? The best item I have now is a Drake R4A. I am told the 6790GM will "blow it away". Some input would be appreciated. I have used all sorts of communications receivers- I guess i am some-what addicted to them. I like my Drake, but i also like some older tube stuff too- esspecially the audio from BA receivers. But I have been told, I can "hear" stuff on a 6790gm, that i can't on some of my favorites. Well, i also got to this users group, and found a lot of people fixing these. Naturally, i am concerned about reliability- if these break a lot, i am going to pass on buying this. So, talk to me folks. Russ- wb3fau in Erie.

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256. Re: [Racal6790GM] Digest Number 100

Yahoo group: Racal6790GM
Date: 2005-06-20 15:05:39 UTC
From: wb3fau@att.net
Topic: 256 Message: 256

Gentlemen, i really do appreciate your honesty, and thanks for your input. So, I will ask one more question- what about the item from Ten-tec? Russ.

257. Re: [Racal6790GM] Digest Number 100

Yahoo group: Racal6790GM
Date: 2005-06-20 15:55:30 UTC
From: Bjarne Mjelde
Topic: 256 Message: 257

I know too little about the Ten-Tec as such. However: 16-bit DSP receivers have problems in meeting my requirements for ultimate selectivity. The JRC NRD-545, a truly beautiful receiver, with 999 bandwidths, proved far inferior to any of my other radios, including (!) the Icom R75, on selectivity. The Kneisner & Doering KWZ-30 had similar, if not that serious, shortcomings. I hear that the HF-1000A/WJ8711 has good selectivity figures, but then it is a commercial radio. 32-bit receivers like the Icoms 746Pro, 756Pro/Pro2 have excellent selectivity figures but again: No better than excellent mechanical or crystal analogue filters.

Don't let the looks deceive you.

--
From the world's northernmost DX-er
Bjarne Mjelde, Berlevag, Arctic Norway
www.kongsfjord.no
blog: mjelde.blogspot.com

On 6/20/05, wb3fau@att.net <wb3fau@...> wrote:
>
> Gentlemen, i really do appreciate your honesty, and thanks for your input. So, I will ask
> one more question- what about the item from Ten-tec? Russ.
>
>
>
> Yahoo! Groups Links
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>
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>
>

258. Re: [Racal6790GM] possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-19 13:52:52 UTC
From: Michael St. Angelo
Topic: 251 Message: 258

Russ,

The 6790 is much more sensitive and stable than any of your tube radios.
It has wide IF filter which can give you good fidelity on AM.

They have two common failures.

- The Ni-Cad battery on the CPU board
can corrode the pcboard traces. This battery should be removed and replaces
with
new Ni-CAd's in an external holder.

- The tantalum capacitors short out. Since the modules are the plugin type,
you can isolate
the module shorting the power supply feed and replace the capacitors if
you're handy with
a soldering iron.

Mike N2MS

> -- "wb3fau1955" <wb3fau@...> wrote:
> Hello to the group- already have had some contact with Gary,
> as he feels confident he can fix a hamfest special, in need
> of help. I think I should download a condensed manual for
> some assistance- in as much as do i really want one of these?
> The best item I have now is a Drake R4A. I am told the 6790GM
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> addicted to them. I like my Drake, but i also like some older
> tube stuff too- esspecially the audio from BA receivers. But I
> have been told, I can "hear" stuff on a 6790gm, that i can't
> on some of my favorites. Well, i also got to this users group,
> and found a lot of people fixing these. Naturally, i am
> concerned about reliability- if these break a lot, i am going to
> pass on buying this. So, talk to me folks. Russ- wb3fau in Erie.

259. RE: [Racal6790GM] possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-21 12:28:23 UTC
From: Carcia, Francis A HS
Topic: 251 Message: 259

Mike,
The R390A in good condition will give it a good run. fc

-----Original Message-----
From: Michael St. Angelo [mailto:mstangelo@...]
Sent: Sunday, June 19, 2005 9:53 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] possible acquisition of Racal RA6790GM

Russ,

The 6790 is much more sensitive and stable than any of your tube radios.
It has wide IF filter which can give you good fidelity on AM.

They have two common failures.

- The Ni-Cad battery on the CPU board
can corrode the pcboard traces. This battery should be removed and replaces
with
new Ni-CAd's in an external holder.

- The tantalum capacitors short out. Since the modules are the plugin type,
you can isolate
the module shorting the power supply feed and replace the capacitors if
you're handy with
a soldering iron.

Mike N2MS

> -- "wb3fau1955" <wb3fau@...> wrote:
> Hello to the group- already have had some contact with Gary,
> as he feels confident he can fix a hamfest special, in need
> of help. I think I should download a condensed manual for
> some assistance- in as much as do i really want one of these?
> The best item I have now is a Drake R4A. I am told the 6790GM
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> used all sorts of communications receivers- I guess i am some-what
> addicted to them. I like my Drake, but i also like some older
> tube stuff too- esspecially the audio from BA receivers. But I
> have been told, I can "hear" stuff on a 6790gm, that i can't
> on some of my favorites. Well, i also got to this users group,
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260. Re: [Racal6790GM] possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-21 13:45:57 UTC
From: Bjarne Mjelde
Topic: 251 Message: 260

Indeed it will. My R-390A is consistently 6-8 dB better on MW than my
Wingerd-bought RA6790/GM. SW sensitivity not yet measured on the
Racal (parameters: AM, 30% mod, 6 kHz bw).

On 6/21/05, Carcia, Francis A HS <francis.carcia@...> wrote:
> Mike,
> The R390A in good condition will give it a good run. fc
>

--
From the world's northernmost DX-er
Bjarne Mjelde, Berlevag, Arctic Norway
www.kongsfjord.no
blog: mjelde.blogspot.com

261. Re: [Racal6790GM] possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-21 13:49:46 UTC
From: aidehua@aol.com
Topic: 251 Message: 261

Recommend finding the optional RF pre-amp. Gary did a fine job on mine, though it doesn't compete with my Rippel Teledyne R390A......The Racal however does had a noiseless display, as it is LCD.....

73,
Ed NI6S

262. RE: [Racal6790GM] possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-21 14:09:57 UTC
From: Carcia, Francis A HS
Topic: 251 Message: 262

Yup but the 6790 will blow it away for dynamic range. The 390 has a tracking RF amplifier with a serious gear train.
The Racal machines have about 10 dB of loss before the first stage of gain.
So with a poor antenna you will see a difference.
A good antenna will not matter. My 6830 is just fine up to 30 MHz. on the 12 element lpda.

-----Original Message-----
From: Bjarne Mjelde [mailto:bjarne.mjelde@...]
Sent: Tuesday, June 21, 2005 9:46 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] possible acquisition of Racal RA6790GM

Indeed it will. My R-390A is consistently 6-8 dB better on MW than my Wingerd-bought RA6790/GM. SW sensitivity not yet measured on the Racal (parameters: AM, 30% mod, 6 kHz bw).

On 6/21/05, Carcia, Francis A HS <francis.carcia@...> wrote:
> Mike,
> The R390A in good condition will give it a good run. fc
>

--
From the world's northernmost DX-er
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_____

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263. Re: [Racal6790GM] possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-21 14:22:20 UTC
From: Bjarne Mjelde
Topic: 251 Message: 263

Maybe... I am using 200 to 550 meter beverages for MW reception. They are of course low-gain. The R-390A wins hands down when it comes to pulling the really weak ones out - provided of course that atmospheric and man-made noise levels are very low. Otherwise there is no difference. As I stated earlier; what you can hear on one radio, you can for the most part hear on another.

On 6/21/05, Carcia, Francis A HS <francis.carcia@...> wrote:
> Yup but the 6790 will blow it away for dynamic range. The 390 has a tracking
> RF amplifier with a serious gear train.
> The Racal machines have about 10 dB of loss before the first stage of gain.
> So with a poor antenna you will see a difference.
> A good antenna will not matter. My 6830 is just fine up to 30 MHz. on the 12
> element lpda.
> -----Original Message-----
> From: Bjarne Mjelde [mailto:bjarne.mjelde@...]
> Sent: Tuesday, June 21, 2005 9:46 AM
> To: Racal6790GM@yahoogroups.com
> Subject: Re: [Racal6790GM] possible acquisition of Racal RA6790GM
>
> Indeed it will. My R-390A is consistently 6-8 dB better on MW than my
> Wingerd-bought RA6790/GM. SW sensitivity not yet measured on the
> Racal (parameters: AM, 30% mod, 6 kHz bw).
>
> On 6/21/05, Carcia, Francis A HS <francis.carcia@...> wrote:
> > Mike,
> > The R390A in good condition will give it a good run. fc
> >
>
> --
> From the world's northernmost DX-er
> Bjarne Mjelde, Berlevag, Arctic Norway
> www.kongsfjord.no
> blog: mjelde.blogspot.com
>
> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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Bjarne Mjelde, Berlevag, Arctic Norway
www.kongsfjord.no
blog: mjelde.blogspot.com

264. Re: [Racal6790GM] possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-22 13:14:52 UTC
From: Per-Tore Aasestrand
Topic: 251 Message: 264

At 15:52 19.06.2005, you wrote:
>Russ,
>
>The 6790 is much more sensitive and stable than any of your tube radios.

Not according to my experience!

A perfectly working R-390A(/URR) is often more sensitive (in the same BW)
than just about any modern receiver.

Stability is also very good - after proper warm-up.

Per-Tore
LA7NO

+----------------------+------------------------------+
Per-Tore Aasestrand	E-mail : ptaa@...
P.O. Box 1708 Nordnes	Voice : + 47 - 55 32 32 35
N-5816 Bergen, Norway	Mobile : + 47 - 92 04 44 76
+----------------------+------------------------------+

265. RE: [Racal6790GM] possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-22 15:16:43 UTC
From: Mil Radman
Topic: 251 Message: 265

I've recently purchased a RA6790/GM and noticed that the general consensus of this group is that the RA6790/GM does not stack up against alot of the higher end receivers of its class. So I pose a question to those that do own and have much more experiance than I in these matters: What is it about the RA6790/GM that you do like and what keeps you interested to this group that deals with this receiver specificly? Please, I'm trying to ask an honest question and get honest answers. Sometimes I feel that maybe I made a mistake of actually purchasing one and could have done better with another receiver. If you had to either recommend or not recommend this receiver to someone that is contemplating a purchase, what would those points be? Why do you keep your receivers, if they are not as able as others you have mentioned?
Thanks,
John

"Carcia, Francis A HS" <francis.carcia@...> wrote:
Mike,
The R390A in good condition will give it a good run. fc

-----Original Message-----
From: Michael St. Angelo [mailto:mstangelo@...]
Sent: Sunday, June 19, 2005 9:53 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] possible acquisition of Racal RA6790GM

Russ,

The 6790 is much more sensitive and stable than any of your tube radios.
It has wide IF filter which can give you good fidelity on AM.

They have two common failures.

- The Ni-Cad battery on the CPU board
can corrode the pcboard traces. This battery should be removed and replaces
with
new Ni-CAd's in an external holder.

- The tantalum capacitors short out. Since the modules are the plugin type,
you can isolate
the module shorting the power supply feed and replace the capacitors if
you're handy with
a soldering iron.

Mike N2MS

> -- "wb3fau1955" <wb3fau@...> wrote:
> Hello to the group- already have had some contact with Gary,
> as he feels confident he can fix a hamfest special, in need
> of help. I think I should download a condensed manual for

> some assistance- in as much as do i really want one of these?
> The best item I have now is a Drake R4A. I am told the 6790GM
> will "blow it away". Some input would be appreciated. I have
> used all sorts of communications receivers- I guess i am some-what
> addicted to them. I like my Drake, but i also like some older
> tube stuff too- esspecially the audio from BA receivers. But I
> have been told, I can "hear" stuff on a 6790gm, that i can't
> on some of my favorites. Well, i also got to this users group,
> and found a lot of people fixing these. Naturally, i am
> concerned about reliability- if these break a lot, i am going to
> pass on buying this. So, talk to me folks. Russ- wb3fau in Erie.

Yahoo! Groups Links

To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/

To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com

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266. RE: [Racal6790GM] possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-22 15:41:06 UTC
From: Carcia, Francis A HS
Topic: 251 Message: 266

I think a 6790 in good working condition is a good radio. The problem is there are a number of marginal ones floating around that give them a bad name.
It is not the end all in receivers but a good one. My ultimate receiver would be a combination of Racal, Harris and Cubic circuits.

-----Original Message-----
From: Mil Radman [mailto:milradman@...]
Sent: Wednesday, June 22, 2005 11:17 AM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] possible acquisition of Racal RA6790GM

I've recently purchased a RA6790/GM and noticed that the general consensus of this group is that the RA6790/GM does not stack up against alot of the higher end receivers of its class. So I pose a question to those that do own and have much more experiance than I in these matters: What is it about the RA6790/GM that you do like and what keeps you interested to this group that deals with this receiver specificly? Please, I'm trying to ask an honest question and get honest answers. Sometimes I feel that maybe I made a mistake of actually purchasing one and could have done better with another receiver. If you had to either recommend or not recommend this receiver to someone that is contemplating a purchase, what would those points be? Why do you keep your receivers, if they are not as able as others you have mentioned?
Thanks,
John

"Carcia, Francis A HS" <francis.carcia@...> wrote:

Mike,
The R390A in good condition will give it a good run. fc

-----Original Message-----
From: Michael St. Angelo [mailto:mstangelo@...]
Sent: Sunday, June 19, 2005 9:53 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] possible acquisition of Racal RA6790GM

Russ,

The 6790 is much more sensitive and stable than any of your tube radios. It has wide IF filter which can give you good fidelity on AM.

They have two common failures.

- The Ni-Cad battery on the CPU board
can corrode the pcboard traces. This battery should be removed and replaces

with
new Ni-CAd's in an external holder.

- The tantalum capacitors short out. Since the modules are the plugin type,
you can isolate
the module shorting the power supply feed and replace the capacitors if
you're handy with
a soldering iron.

Mike N2MS

> -- "wb3fa! u1955" <wb3fau@...> wrote:
> Hello to the group- already have had some contact with Gary,
> as he feels confident he can fix a hamfest special, in need
> of help. I think I should download a condensed manual for
> some assistance- in as much as do i really want one of these?
> The best item I have now is a Drake R4A. I am told the 6790GM
> will "blow it away". Some input would be appreciated. I have
> used all sorts of communications receivers- I guess i am some-what
> addicted to them. I like my Drake, but i also like some older
> tube stuff too- esspecially the audio from BA receivers. But I
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> and found a lot of people fixing these. Naturally, i am
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> pass on buying this. So, talk to me folks. Russ- wb3fau in Erie.

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<http://us.rd.yahoo.com/evt=32658/*http://discover.yahoo.com/weekend.html>
it out!

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/
<http://groups.yahoo.com/group/Racal6790GM/>

* To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com
<mailto:Racal6790GM-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

267. Re: [Racal6790GM] possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-22 18:35:32 UTC
From: Bjarne Mjelde
Topic: 251 Message: 267

It is a good receiver in its own right, good selectivity (provided proper filters are installed), fairly good audio, very easy to tune (I have the 1/30/1000 Hz eprom which I find suitable for my own use, although 30 Hz should have been 10 or 100). Stability, accuracy. I personally don't like the "hang" AGC but there are workarounds. And it is good-looking. Looks do count. And although it doesn't match the R-390A in sensitivity, or has notch filters, or passband tuning, there are a number of DX situations where it will perform admirably. The lack of PBT is not a serious issue - ECSS DX with this one is a breeze especially if you have dedicated USB and LSB filters. And there are several transparent auto-notch filters available, such as the JPS NF-60. So, although the R-390A (modified) is the most sensitive receiver I have, and the Icom IC-746Pro (modified) is probably the best overall receiver I have, I have no plans of parting with my RA6790/GM.

--
From the world's northernmost DX-er
Bjarne Mjelde, Berlevag, Arctic Norway
www.kongsfjord.no
blog: mjelde.blogspot.com

On 6/22/05, Mil Radman <milradman@...> wrote:
> I've recently purchased a RA6790/GM and noticed that the general consensus
> of this group is that the RA6790/GM does not stack up against alot of the
> higher end receivers of its class. So I pose a question to those that do own
> and have much more experiance than I in these matters: What is it about the
> RA6790/GM that you do like and what keeps you interested to this group that
> deals with this receiver specificly? Please, I'm trying to ask an honest
> question and get honest answers. Sometimes I feel that maybe I made a
> mistake of actually purchasing one and could have done better with another
> receiver. If you had to either recommend or not recommend this receiver to
> someone that is contemplating a purchase, what would those points be? Why do
> you keep your receivers, if they are not as able as others you have
> mentioned?
> Thanks,
> John
>

268. Re: [Racal6790GM] possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-24 00:50:08 UTC
From: Gary
Topic: 251 Message: 268

I am considering a receiver upgrade and am also curious about comparison to other receivers. I do have a couple of RA6790/GM receivers and a few other HF receivers, but nothing else high-end.

The RA6790/GM does reasonable well on the basics but has little in the way of bells and whistles.

I like the tuning and the ability to set a frequency to 1Hz. The Icom IC-R71, for comparison, has 10Hz steps but only displays 100Hz steps. The R71 also has an annoying thump sound at some frequency transitions. This is really a problem when scanning across the band because I have to stop and see if it was a weak signal.

It rates high in signal handling, but there are others that are better. See http://www.sherweng.com/table.html for some comparisons.

One of those bells and whistles that I could really use is a noise blanker. The one in the R71 does a good job on some of the noise I have at my location.

Price and availability are significant factors in selecting this receiver. A Harris RF-590 for example costs about 3 times as much, but it is not clear to me if it is that much better.

Gary

Mil Radman wrote:
> I've recently purchased a RA6790/GM and noticed that the general
> consensus of this group is that the RA6790/GM does not stack up against
> alot of the higher end receivers of its class. So I pose a question to
> those that do own and have much more experiance than I in these matters:
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> Please, I'm trying to ask an honest question and get honest answers.
> Sometimes I feel that maybe I made a mistake of actually purchasing one
> and could have done better with another receiver. If you had to either
> recommend or not recommend this receiver to someone that is
> contemplating a purchase, what would those points be? Why do you keep
> your receivers, if they are not as able as others you have mentioned?
> Thanks,
> John
>

269. Re: possible acquisition of Racal RA6790GM

Yahoo group: Racal6790GM
Date: 2005-06-24 16:14:01 UTC
From: Paolo Rossi
Topic: 251 Message: 269

It's true, r390A (properly aligned) is better than 6790, you have a lot of tuned circuits in front of mixer.
6790 is an economic receiver with cost saving solutions.
A Racal ra1772 is much better and is halfcost.
Ciceroio

--- In Racal6790GM@yahoogroups.com, Per-Tore Aasestrand <ptaa@i...> wrote:
> At 15:52 19.06.2005, you wrote:
> >Russ,
> >
> >The 6790 is much more sensitive and stable than any of your tube radios.
>
> Not according to my experience!
>
> A perfectly working R-390A(/URR) is often more sensitive (in the same BW)
> than just about any modern receiver.
>
> Stability is also very good - after proper warm-up.
>
> Per-Tore
> LA7NO
>
>
> +----------------------+------------------------------+
> | Per-Tore Aasestrand | E-mail : ptaa@i... |
> | P.O. Box 1708 Nordnes | Voice : + 47 - 55 32 32 35 |
> | N-5816 Bergen, Norway | Mobile : + 47 - 92 04 44 76 |
> +----------------------+------------------------------+

271. MA-6004 Remote Controller

Yahoo group: Racal6790GM
Date: 2005-06-28 17:51:31 UTC
From: Barry Hauser
Topic: 271 Message: 271

Hi --

Anybody have or know where I can get a manual, or at least the
pinouts/hookup to connect to the receivers?

Is anyone using one?

regards to all,
Barry

273. Re: [Racal6790GM] MA-6004 Remote Controller

Yahoo group: Racal6790GM
Date: 2005-06-29 17:47:59 UTC
From: Gary Wingerd
Topic: 271 Message: 273

Barry,

I think I have one in the shop, I'll check and email you back in a couple
of days.

Thanks,
Gary
----- Original Message -----
From: "Barry Hauser" <barry@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Tuesday, June 28, 2005 10:51 AM
Subject: [Racal6790GM] MA-6004 Remote Controller

> Hi --
>
> Anybody have or know where I can get a manual, or at least the
> pinouts/hookup to connect to the receivers?
>
> Is anyone using one?
>
> regards to all,
> Barry
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> Yahoo! Groups Links
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274. Re: [Racal6790GM] MA-6004 Remote Controller

Yahoo group: Racal6790GM
Date: 2005-06-29 19:18:08 UTC
From: Barry Hauser
Topic: 271 Message: 274

Hi Gary

I'm experiencing some deja vu here. Whole thing seems oddly familiar. I may have acquired one of these before -- and a manual from you. But I can't remember, and I'm not where my manuals are (mostly) at.

I seem to even remember making up a cable or getting one somewhere. The MA-6004 has two 25 pin D-sub connectors. Seems as though it's supposed to control as many as 99 receivers. That's the only readout I can get from it with no hookup.

This one is fitted with the LED's around the LCD's. Other than rx # the displays are blank. The mode display indicates "AA" when it's first turned on.

I suppose there's nothing to report if there's no receiver hooked up. If I press the request or similar named key, I get an IO error. I don't recall how the other MA-6004 (if that's what it was) reacted, but I do think I had it hooked up. It was a while ago. I think it needs a D25 to round connector (special one) cable.

Somehow, I think I borrowed my receiver data cable and tried it, but I'm sure that has just a 9-pin. I believe I also made up a second cable and that might have been for a 25, or I used a 9-25 adaptor and got lucky. Just can't remember.

Let me know if you find that manual, but hold off on the copy. I think we may have been here before. Happens when you go round in circles.

Should the mode display show anything (but blank) if there are no receivers to report. I think this works by purely sending control signals and everything on the display comes from the receiver - i.e. button presses go out to the receiver(s), receivers send back the settings as they would to their own displays. The fault light doesn't go on.

regards,
Barry

----- Original Message -----
From: "Gary Wingerd" <gewingerd@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, June 29, 2005 1:47 PM
Subject: Re: [Racal6790GM] MA-6004 Remote Controller

> Barry,
>
> I think I have one in the shop, I'll check and email you back in a couple

> of days.
>
> Thanks,
> Gary
> ----- Original Message -----
> From: "Barry Hauser" <barry@...>
> To: <Racal6790GM@yahoogroups.com>
> Sent: Tuesday, June 28, 2005 10:51 AM
> Subject: [Racal6790GM] MA-6004 Remote Controller
>
>
>> Hi --
>>
>> Anybody have or know where I can get a manual, or at least the
>> pinouts/hookup to connect to the receivers?
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>> Is anyone using one?
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>> regards to all,
>> Barry
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>> Yahoo! Groups Links
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276. Racal TRA931X

Yahoo group: Racal6790GM
Date: 2005-07-08 00:20:25 UTC
From: lu5emm
Topic: 276 Message: 276

Hi everybody , I know that is wrong place but I m looking
for TRA 931X / Syncal 30 circuit.
I would appreciate any help.

Thanks !!!

Daniel.

278. Lightning protection

Yahoo group: Racal6790GM
Date: 2005-07-26 23:33:58 UTC
From: maxhdrm2
Topic: 278 Message: 278

Racal 6790GM group,
Summer being a busy time in the northern hemisphere sometimes we
(I)
overlook things that ultimately cause big headaches. Today I made a
painful realization that my lightning/Static protection was not
adequate when trying to use my Racal 6790 to listen in on the Space
Shuttle rebroadcast from Goddard. Simply lowering my antenna before a
storm last week did not prevent an A-2 board from getting zapped even
with a lightning arrestor.(bite code 15) Fortunately I had a spare
A-2
and remedied the problem but I was not so lucky with another non
Racal
receiver that also got zapped.
The moral of this story is obvious. Check your lightning and antenna
feed protection. Keep those spikes out of your radios. And if anyone
has a good protection scheme please post it. I need a better one
because mine didn't work.
Sincerely Max
Space shuttle rebroadcast Goddard Space Flight Center Greenbelt, MD
WA3NAN: 28650, 21395, 14295, 7185, 3860

279. Re: [Racal6790GM] Lightning protection

Yahoo group: Racal6790GM
Date: 2005-07-26 23:54:57 UTC
From: toddroberts2001@aol.com
Topic: 278 Message: 279

In a message dated 7/26/2005 7:34:12 PM Eastern Standard Time,
maxhdrm2@... writes:
Racal 6790GM group,
Summer being a busy time in the northern hemisphere sometimes we
(I)
overlook things that ultimately cause big headaches. Today I made a
painful realization that my lightning/Static protection was not
adequate when trying to use my Racal 6790 to listen in on the Space
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The moral of this story is obvious. Check your lightning and antenna
feed protection. Keep those spikes out of your radios. And if anyone
has a good protection scheme please post it. I need a better one
because mine didn't work.
Sincerely Max

Max, the only lightning protection I trust is to completely disconnect my receivers whenever I am not using them for any length of time during the summer thunderstorm months. Also I do not allow any antenna leads to enter the house when not in use, they are lying on the ground away from the house tied to a safety ground rod. And I also unplug the radios when not in use - a spike could always come in on the power line from a nearby lightning hit even with the antenna disconnected. It is a little more work to do this but I think well worth it for the possible headaches it can save. Haven't lost a radio yet in 30+ years of listening with outdoor antennas. 73 Todd WD4NGG

280. RE: [Racal6790GM] Lightning protection

Yahoo group: Racal6790GM
Date: 2005-07-27 12:15:08 UTC
From: Carcia, Francis A HS
Topic: 278 Message: 280

When you replace the FETs in the mixer consider using a SD5000 or SD5400.
These are a quad FET
With internal gate protection. The SD5000 is used in the RA6830 and the
SD5400 has the same guts
But smaller package used in Cubic receivers. fc

-----Original Message-----
From: toddroberts2001@... [mailto:toddroberts2001@...]
Sent: Tuesday, July 26, 2005 7:55 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Lightning protection

In a message dated 7/26/2005 7:34:12 PM Eastern Standard Time,
maxhdrm2@... writes:
Racal 6790GM group,
Summer being a busy time in the northern hemisphere sometimes we
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worth
it for the possible headaches it can save. Haven't lost a radio yet in 30+
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Yahoo! Groups Links

281. Re: [Racal6790GM] Lightning protection

Yahoo group: Racal6790GM
Date: 2005-07-27 12:34:42 UTC
From: maxhdrm2
Topic: 278 Message: 281

fc,
Ok thanks. Would you have a source for the SD5000? If I remember this is an 8 pin dip. Could or should this be engineered with a dip socket? I did surgery once before on an A-2 with success but it was not a simple repair. And as I recall the fets were $40.
Thanks Max
----- Original Message -----
From: "Carcia, Francis A HS" <francis.carcia@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, July 27, 2005 8:15 AM
Subject: RE: [Racal6790GM] Lightning protection

> When you replace the FETs in the mixer consider using a SD5000 or SD5400.
> These are a quad FET
> With internal gate protection. The SD5000 is used in the RA6830 and the
> SD5400 has the same guts
> But smaller package used in Cubic receivers. fc
>
> -----Original Message-----
> From: toddroberts2001@... [mailto:toddroberts2001@...]
> Sent: Tuesday, July 26, 2005 7:55 PM
> To: Racal6790GM@yahoogroups.com
> Subject: Re: [Racal6790GM] Lightning protection
>
> In a message dated 7/26/2005 7:34:12 PM Eastern Standard Time,
> maxhdrm2@... writes:
> Racal 6790GM group,
> Summer being a busy time in the northern hemisphere sometimes we
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> overlook things that ultimately cause big headaches. Today I made a
> painful realization that my lightning/Static protection was not
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> storm last week did not prevent an A-2 board from getting zapped even
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> Sincerely Max
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> Yahoo! Groups Links
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> Yahoo! Groups Links
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282. RE: [Racal6790GM] Lightning protection

Yahoo group: Racal6790GM
Date: 2005-07-27 13:18:41 UTC
From: Carcia, Francis A HS
Topic: 278 Message: 282

Hi,
There were plenty around the last time I searched the WEB. I think they may be out of production though. I think they may be cheaper. The RA6830 has a small board that plugs into the module if it is ever blown. That is unlikely since the radio has an active limiter and gas discharge tube. I think the radio will take 20 watts continuous input.
The package is a 14 pin dip and I think the 5400 is a gull wing small dip.
I've driven
The mixer with the HP8640B at full power and limiter bypassed with no problems. I wouldn't do it again though. It was just starting to compress at plus 20 dBM input! The active limiter kicks in at about 15 dBM.
I've only seen pictures of the 6790 mixer can so don't know if a socket would fit.
Maybe the fet board could be replaced with a small proto board. I have the schematic at home and can check to see if there is any bias voltage used if you ever make the modification. Gary W. gave me a copy of the internal schematic a while ago. fc

-----Original Message-----
From: maxhdrm2 [mailto:maxhdrm2@...]
Sent: Wednesday, July 27, 2005 8:35 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Lightning protection

fc,
Ok thanks. Would you have a source for the SD5000? If I remember this is an 8 pin dip. Could or should this be engineered with a dip socket? I did surgery once before on an A-2 with success but it was not a simple repair. And as I recall the fets were $40.
Thanks Max
----- Original Message -----
From: "Carcia, Francis A HS" <francis.carcia@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, July 27, 2005 8:15 AM
Subject: RE: [Racal6790GM] Lightning protection

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> But smaller package used in Cubic receivers. fc
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> -----Original Message-----
> From: toddroberts2001@... [mailto:toddroberts2001@...]
> Sent: Tuesday, July 26, 2005 7:55 PM
> To: Racal6790GM@yahoogroups.com

> Subject: Re: [Racal6790GM] Lightning protection
>
> In a message dated 7/26/2005 7:34:12 PM Eastern Standard Time,
> maxhdrm2@... writes:
> Racal 6790GM group,
> Summer being a busy time in the northern hemisphere sometimes we
> (I)
> overlook things that ultimately cause big headaches. Today I made a
> painful realization that my lightning/Static protection was not
> adequate when trying to use my Racal 6790 to listen in on the Space
> Shuttle rebroadcast from Goddard. Simply lowering my antenna before a
> storm last week did not prevent an A-2 board from getting zapped even
> with a lightning arrestor.(bite code 15) Fortunately I had a spare
> A-2
> and remedied the problem but I was not so lucky with another non
> Racal
> receiver that also got zapped.
> The moral of this story is obvious. Check your lightning and antenna
> feed protection. Keep those spikes out of your radios. And if anyone
> has a good protection scheme please post it. I need a better one
> because mine didn't work.
> Sincerely Max
>
> Max, the only lightning protection I trust is to completely disconnect my
> receivers whenever I am not using them for any length of time during the
> summer
> thunderstorm months. Also I do not allow any antenna leads to enter the
> house
> when not in use, they are lying on the ground away from the house tied to
a
> safety ground rod. And I also unplug the radios when not in use - a spike
> could
> always come in on the power line from a nearby lightning hit even with the
> antenna disconnected. It is a little more work to do this but I think well
> worth
> it for the possible headaches it can save. Haven't lost a radio yet in 30+
> years of listening with outdoor antennas. 73 Todd WD4NGG
>
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> Yahoo! Groups Links
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> Yahoo! Groups Links
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Yahoo! Groups Links

283. Re: [Racal6790GM] Lightning protection

Yahoo group: Racal6790GM
Date: 2005-07-27 13:31:42 UTC
From: maxhdrm2
Topic: 278 Message: 283

fc,
Ok thanks for the help, I may defer this until winter. Commencing egg
removal from face.
Thanks again, Max
----- Original Message -----
From: "Carcia, Francis A HS" <francis.carcia@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, July 27, 2005 9:18 AM
Subject: RE: [Racal6790GM] Lightning protection

> Hi,
> There were plenty around the last time I searched the WEB. I think they
may
> be out of production though. I think they may be cheaper. The RA6830 has a
> small board that plugs into the module if it is ever blown. That is
unlikely
> since the radio has an active limiter and gas discharge tube. I think the
> radio will take 20 watts continuous input.
> The package is a 14 pin dip and I think the 5400 is a gull wing small dip.
> I've driven
> The mixer with the HP8640B at full power and limiter bypassed with no
> problems. I wouldn't do it again though. It was just starting to compress
at
> plus 20 dBM input! The active limiter kicks in at about 15 dBM.
> I've only seen pictures of the 6790 mixer can so don't know if a socket
> would fit.
> Maybe the fet board could be replaced with a small proto board. I have the
> schematic at home and can check to see if there is any bias voltage used
if
> you ever make the modification. Gary W. gave me a copy of the internal
> schematic a while ago. fc
>
> -----Original Message-----
> From: maxhdrm2 [mailto:maxhdrm2@...]
> Sent: Wednesday, July 27, 2005 8:35 AM
> To: Racal6790GM@yahoogroups.com
> Subject: Re: [Racal6790GM] Lightning protection
>
> fc,
> Ok thanks. Would you have a source for the SD5000? If I remember this is
an
> 8 pin dip. Could or should this be engineered with a dip socket? I did
> surgery once before on an A-2 with success but it was not a simple repair.
> And as I recall the fets were $40.
> Thanks Max

> ----- Original Message -----
> From: "Carcia, Francis A HS" <francis.carcia@...>
> To: <Racal6790GM@yahoogroups.com>
> Sent: Wednesday, July 27, 2005 8:15 AM
> Subject: RE: [Racal6790GM] Lightning protection
>
>
> > When you replace the FETs in the mixer consider using a SD5000 or
SD5400.
> > These are a quad FET
> > With internal gate protection. The SD5000 is used in the RA6830 and the
> > SD5400 has the same guts
> > But smaller package used in Cubic receivers. fc
> >
> > -----Original Message-----
> > From: toddroberts2001@... [mailto:toddroberts2001@...]
> > Sent: Tuesday, July 26, 2005 7:55 PM
> > To: Racal6790GM@yahoogroups.com
> > Subject: Re: [Racal6790GM] Lightning protection
> >
> > In a message dated 7/26/2005 7:34:12 PM Eastern Standard Time,
> > maxhdrm2@... writes:
> > Racal 6790GM group,
> > Summer being a busy time in the northern hemisphere sometimes we
> > (I)
> > overlook things that ultimately cause big headaches. Today I made a
> > painful realization that my lightning/Static protection was not
> > adequate when trying to use my Racal 6790 to listen in on the Space
> > Shuttle rebroadcast from Goddard. Simply lowering my antenna before a
> > storm last week did not prevent an A-2 board from getting zapped even
> > with a lightning arrestor.(bite code 15) Fortunately I had a spare
> > A-2
> > and remedied the problem but I was not so lucky with another non
> > Racal
> > receiver that also got zapped.
> > The moral of this story is obvious. Check your lightning and antenna
> > feed protection. Keep those spikes out of your radios. And if anyone
> > has a good protection scheme please post it. I need a better one
> > because mine didn't work.
> > Sincerely Max
> >
> > Max, the only lightning protection I trust is to completely disconnect
my
> > receivers whenever I am not using them for any length of time during the
> > summer
> > thunderstorm months. Also I do not allow any antenna leads to enter the
> > house
> > when not in use, they are lying on the ground away from the house tied
to
> a

> > safety ground rod. And I also unplug the radios when not in use - a
spike
> > could
> > always come in on the power line from a nearby lightning hit even with
the
> > antenna disconnected. It is a little more work to do this but I think
well
> > worth
> > it for the possible headaches it can save. Haven't lost a radio yet in
30+
> > years of listening with outdoor antennas. 73 Todd WD4NGG
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> > Yahoo! Groups Links
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286. re: RA6790GM cable for PC to radio for computer control

Yahoo group: Racal6790GM
Date: 2005-08-03 21:28:24 UTC
From: Steve Hajducek
Topic: 278 Message: 286

Hello All,

Does anyone have a good source for purchase of the needed cable for PC
to radio for computer control to make with that round military connector ?

Thanks in advance for any assistance.

/s/ Steve, N2CKH/AAR2EY

287. Re: [Racal6790GM] re: RA6790GM cable for PC to radio for computer control

Yahoo group: Racal6790GM
Date: 2005-08-08 17:33:46 UTC
From: Bill Turini
Topic: 278 Message: 287

I know of no source of pre-made cables. I ordered the mil-spec connector from: Wm Perry Co 92 Beechwood Rd Louisville, KY 40207 502 893 8724 And wired my own from the diagram in the manual. Worked first time. BTW, I have no financial connection to Wm. Perry. Hell of a nice guy and company. You tell him what you want, he sends it to you, you send him the money. Bill KA4GAV > > > > >
> Hello All,
>
> Does anyone have a good source for purchase of the needed cable for PC
> to radio for computer control to make with that round military connector ?
>
> Thanks in advance for any assistance.
>
> /s/ Steve, N2CKH/AAR2EY
>
>
> > > > > > >

>
> SPONSORED LINKS >
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>
> Shortwave receivers (http://groups.yahoo.com/gads?t=ms&k=Shortwave+receivers&w1=Shortwave+receivers&w2=Ham+radio&c=2&s=40&.sig=MB4yUGINw9tizVKS3Upr0w) >
>
> Ham radio (http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Shortwave+receivers&w2=Ham+radio&c=2&s=40&.sig=XNtLoznpXE_hqNE4dvfaHA) >
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>
> > > > > > > > >
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> > YAHOO! GROUPS LINKS >
>
> >
- Visit your group "Racal6790GM (http://groups.yahoo.com/group/Racal6790GM)" on the web.
>
- To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com
>
- Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
(http://docs.yahoo.com/info/terms/). > >
>
> >
> > > > > > > > > > -- NeoMail - http://neomail.sourceforge.net

288. Re: [Racal6790GM] re: RA6790GM cable for PC to radio for computer control

Yahoo group: Racal6790GM
Date: 2005-08-09 15:30:09 UTC
From: Steve Hajducek
Topic: 278 Message: 288

Hi Bill, Thanks, I had already made contact with Bill, I appreciate your comments. /s/ Steve At 01:33 PM 8/8/2005, you wrote: >I know of no source of pre-made cables. I ordered the mil-spec connector >from: > >Wm Perry Co >92 Beechwood Rd >Louisville, KY 40207 >502 893 8724 > >And wired my own from the diagram in the manual. Worked first time. > >BTW, I have no financial connection to Wm. Perry. Hell of a nice guy and >company. You tell him what you want, he sends it to you, you send him >the money. > >Bill >KA4GAV > > > > > > > > > > >
> > Hello All,
> >
> > Does anyone have a good source for purchase of the needed cable for PC
> > to radio for computer control to make with that round military >connector ?
> >
> > Thanks in advance for any assistance.
> >
> > /s/ Steve, N2CKH/AAR2EY
> >
> >
> > > > > > > > > > > > > >

> >
> > SPONSORED LINKS > >
> >
> > >
> >
> > href="http://groups.yahoo.com/gads?t=ms&k=Shortwave+receivers&w1=Shortwave+receivers&w2=Ham+radio&c=2&s=40&.sig=MB4yUGINw9tizVKS3Upr0w">Shortwave >receivers > >
> >
> > href="http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Shortwave+receivers&w2=Ham+radio&c=2&s=40&.sig=XNtLoznpXE_hqNE4dvfaHA">Ham >radio > >
> >
> >
> > > > > > > > > > > > > > > >
> >
> > > > YAHOO! GROUPS LINKS > >
> >
> > > >
- Visit your group "href="http://groups.yahoo.com/group/Racal6790GM">Racal6790GM" on the >web.
> >
- To unsubscribe from this group, send an >email to: href="mailto:Racal6790GM-unsubscribe@yahoogroups.com?subject=Unsubscribe">Racal6790GM-unsubscribe@yahoogroups.com
> >
- Your use of Yahoo! Groups is subject to >the Yahoo! Terms of >Service

(http://docs.yahoo.com/info/terms/). > > > >
> >
> > > >
> >-- >NeoMail - http://neomail.sourceforge.net > > >
>Yahoo! Groups Links > > > >

289. Software

Yahoo group: Racal6790GM
Date: 2005-09-11 04:38:28 UTC
From: jbsconsultant2003
Topic: 289 Message: 289

New to group and wanted to ask all if they use software to control/interface their computer with the 6790/GM, what software they use?

best,

Jim Sweeney

290. Re: [Racal6790GM] Software

Yahoo group: Racal6790GM
Date: 2005-09-11 11:14:56 UTC
From: maxhdrm2
Topic: 289 Message: 290

Welcome to the 6790 group! There is a link in the links section for a free software download for controlling a 6790 equipped with an interface board. There are some preliminaries for setting up the interface board and cabling. All of the instructions can be found in the files section. Additionally we are lucky to have some very capable members that are very helpful if you run into a jam. Good luck! Max

----- Original Message -----
From: jbsconsultant2003
To: Racal6790GM@yahoogroups.com
Sent: Sunday, September 11, 2005 12:38 AM
Subject: [Racal6790GM] Software

New to group and wanted to ask all if they use software to control/interface their computer with the 6790/GM, what software they use?

best,

Jim Sweeney

YAHOO! GROUPS LINKS

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b.. To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

291. Re: Re: Software

Yahoo group: Racal6790GM
Date: 2005-09-12 14:07:58 UTC
From: Dave
Topic: 289 Message: 291

This is what I got when I clicked on the link:

"This file was corrupt and has been removed.
Please re-upload the original file. "

/Dave

>
> Message: 1
> Date: Sun, 11 Sep 2005 07:14:56 -0400
> From: "maxhdrm2" <maxhdrm2@...>
> Subject: Re: Software
>
> Welcome to the 6790 group! There is a link in the links section for a free
> software download for controlling a 6790 equipped with an interface board.
> There are some preliminaries for setting up the interface board and
> cabling. All of the instructions can be found in the files section.
> Additionally we are lucky to have some very capable members that are very
> helpful if you run into a jam. Good luck! Max
> ----- Original Message -----
> From: jbsconsultant2003
> To: Racal6790GM@yahoogroups.com
> Sent: Sunday, September 11, 2005 12:38 AM
> Subject: [Racal6790GM] Software
>
>
> New to group and wanted to ask all if they use software to
> control/interface their computer with the 6790/GM, what software they
> use?
>
> best,
>
> Jim Sweeney

292. Re: [Racal6790GM] Re: Re: Software

Yahoo group: Racal6790GM
Date: 2005-09-12 23:18:19 UTC
From: maxhdrm2
Topic: 289 Message: 292

Dave, Yes it seems we have a dead link. I have a copy of the program in zip format. I did try to up load it to the files section but we have reached the limit of available storage space at yahoo. Maybe I could attach it to an e-mail. Or I could temporarily take the manual PDFs out. The manuals are available on other radio websites. I'm open for suggestions.

Max

----- Original Message -----
From: Dave
To: Racal6790GM@yahoogroups.com
Sent: Monday, September 12, 2005 10:07 AM
Subject: [Racal6790GM] Re: Re: Software

This is what I got when I clicked on the link:

"This file was corrupt and has been removed.
Please re-upload the original file. "

/Dave

>
> Message: 1
> Date: Sun, 11 Sep 2005 07:14:56 -0400
> From: "maxhdrm2" <maxhdrm2@...>
> Subject: Re: Software
>
> Welcome to the 6790 group! There is a link in the links section for a free
> software download for controlling a 6790 equipped with an interface board.
> There are some preliminaries for setting up the interface board and
> cabling. All of the instructions can be found in the files section.
> Additionally we are lucky to have some very capable members that are very
> helpful if you run into a jam. Good luck! Max
> ----- Original Message -----
> From: jbsconsultant2003
> To: Racal6790GM@yahoogroups.com
> Sent: Sunday, September 11, 2005 12:38 AM
> Subject: [Racal6790GM] Software
>
>
> New to group and wanted to ask all if they use software to
> control/interface their computer with the 6790/GM, what software they
> use?
>
> best,
>

> Jim Sweeney

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c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

293. RE: [Racal6790GM] Re: Re: Software

Yahoo group: Racal6790GM
Date: 2005-09-13 12:14:09 UTC
From: Carcia, Francis A HS
Topic: 289 Message: 293

Try visualradio.com

-----Original Message-----
From: maxhdrm2 [mailto:maxhdrm2@...]
Sent: Monday, September 12, 2005 7:18 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Re: Re: Software

Dave, Yes it seems we have a dead link. I have a copy of the program in zip format. I did try to up load it to the files section but we have reached the limit of available storage space at yahoo. Maybe I could attach it to an e-mail. Or I could temporarily take the manual PDFs out. The manuals are available on other radio websites. I'm open for suggestions.

Max

----- Original Message -----
From: Dave
To: Racal6790GM@yahoogroups.com
Sent: Monday, September 12, 2005 10:07 AM
Subject: [Racal6790GM] Re: Re: Software

This is what I got when I clicked on the link:

"This file was corrupt and has been removed.
Please re-upload the original file. "

/Dave

>
> Message: 1
> Date: Sun, 11 Sep 2005 07:14:56 -0400
> From: "maxhdrm2" <maxhdrm2@...>
> Subject: Re: Software
>
> Welcome to the 6790 group! There is a link in the links section for a free
> software download for controlling a 6790 equipped with an interface board.
> There are some preliminaries for setting up the interface board and
> cabling. All of the instructions can be found in the files section.
> Additionally we are lucky to have some very capable members that are very
> helpful if you run into a jam. Good luck! Max
> ----- Original Message -----
> From: jbsconsultant2003
> To: Racal6790GM@yahoogroups.com

> Sent: Sunday, September 11, 2005 12:38 AM
> Subject: [Racal6790GM] Software
>
>
> New to group and wanted to ask all if they use software to
> control/interface their computer with the 6790/GM, what software they
> use?
>
> best,
>
> Jim Sweeney

--
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Service.

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

294. Re: file space

Yahoo group: Racal6790GM
Date: 2005-09-13 13:11:03 UTC
From: Dave
Topic: 294 Message: 294

Other groups I belong to have opened up an annex group just for more storage. It seems to work well. It could be called Racal6790files or something.

/Dave

> Message: 2
> Date: Mon, 12 Sep 2005 19:18:19 -0400
> From: "maxhdrm2" <maxhdrm2@...>
> Subject: Re: Re: Re: Software
>
> Dave, Yes it seems we have a dead link. I have a copy of the program in
> zip format. I did try to up load it to the files section but we have
> reached the limit of available storage space at yahoo. Maybe I could
> attach it to an e-mail. Or I could temporarily take the manual PDFs out.
> The manuals are available on other radio websites. I'm open for
> suggestions.
>
> Max

295. Re: [Racal6790GM] Re: Re: Software

Yahoo group: Racal6790GM
Date: 2005-09-13 13:26:43 UTC
From: oscar873@aol.com
Topic: 289 Message: 295

Has the R2174B/URR manual surfaced any where?
Thanks
Al

-----Original Message-----
From: maxhdrm2 <maxhdrm2@...>
To: Racal6790GM@yahoogroups.com
Sent: Mon, 12 Sep 2005 19:18:19 -0400
Subject: Re: [Racal6790GM] Re: Re: Software

Dave, Yes it seems we have a dead link. I have a copy of the program in zip format. I did try to up load it to the files section but we have reached the limit of available storage space at yahoo. Maybe I could attach it to an e-mail. Or I could temporarily take the manual PDFs out. The manuals are available on other radio websites. I'm open for suggestions.

Max

----- Original Message -----
From: Dave
To: Racal6790GM@yahoogroups.com
Sent: Monday, September 12, 2005 10:07 AM
Subject: [Racal6790GM] Re: Re: Software

This is what I got when I clicked on the link:

"This file was corrupt and has been removed.
Please re-upload the original file. "

/Dave

>
> Message: 1
> Date: Sun, 11 Sep 2005 07:14:56 -0400
> From: "maxhdrm2" <maxhdrm2@...>
> Subject: Re: Software
>
> Welcome to the 6790 group! There is a link in the links section for a free
> software download for controlling a 6790 equipped with an interface board.
> There are some preliminaries for setting up the interface board and
> cabling. All of the instructions can be found in the files section.
> Additionally we are lucky to have some very capable members that are very
> helpful if you run into a jam. Good luck! Max
> ----- Original Message -----
> From: jbsconsultant2003
> To: Racal6790GM@yahoogroups.com
> Sent: Sunday, September 11, 2005 12:38 AM

> Subject: [Racal6790GM] Software
>
>
> New to group and wanted to ask all if they use software to
> control/interface their computer with the 6790/GM, what software they
> use?
>
> best,
>
> Jim Sweeney

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b.. To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

296. Re: [Racal6790GM] Re: Re: Software

Yahoo group: Racal6790GM
Date: 2005-09-13 13:32:18 UTC
From: oscar873@aol.com
Topic: 289 Message: 296

Any good places to check out for Racal etc., in Dallas area?
Al

-----Original Message-----
From: Dave <dave@...>
To: Racal6790GM@yahoogroups.com
Sent: Mon, 12 Sep 2005 10:07:58 -0400
Subject: [Racal6790GM] Re: Re: Software

This is what I got when I clicked on the link:

"This file was corrupt and has been removed.
Please re-upload the original file. "

/Dave

>
> Message: 1
> Date: Sun, 11 Sep 2005 07:14:56 -0400
> From: "maxhdrm2" <maxhdrm2@...>
> Subject: Re: Software
>
> Welcome to the 6790 group! There is a link in the links section for a free
> software download for controlling a 6790 equipped with an interface board.
> There are some preliminaries for setting up the interface board and
> cabling. All of the instructions can be found in the files section.
> Additionally we are lucky to have some very capable members that are very
> helpful if you run into a jam. Good luck! Max
> ----- Original Message -----
> From: jbsconsultant2003
> To: Racal6790GM@yahoogroups.com
> Sent: Sunday, September 11, 2005 12:38 AM
> Subject: [Racal6790GM] Software
>
>
> New to group and wanted to ask all if they use software to
> control/interface their computer with the 6790/GM, what software they
> use?
>
> best,
>
> Jim Sweeney

Yahoo! Groups Links

[Non-text portions of this message have been removed]

297. New file uploaded to Racal6790GM

Yahoo group: Racal6790GM
Date: 2005-09-14 17:25:03 UTC
From: Racal6790GM@yahoogroups.com
Topic: 168 Message: 297

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the Racal6790GM
group.

File : /ra6790v21.zip
Uploaded by : maxhdrm2 <maxhdrm2@...>
Description : RA6790v21 Software

You can access this file at the URL:
http://groups.yahoo.com/group/Racal6790GM/files/ra6790v21.zip

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

maxhdrm2 <maxhdrm2@...>

298. RA1772

Yahoo group: Racal6790GM
Date: 2005-09-27 14:41:15 UTC
From: marcdeclerck2000
Topic: 298 Message: 298

Hi,
I now its a group for RA6790. My 6670 works very well but a have a big problem with the RA1772. Where can i find a service manual or a schematic for the RA1772?
'73 and best regards,
Marc

299. Re: [Racal6790GM] RA1772

Yahoo group: Racal6790GM
Date: 2005-09-27 22:33:53 UTC
From: Dan Rae
Topic: 298 Message: 299

marcdeclerck2000 wrote:
a have a big
problem with the RA1772. Where can i find a service manual or a
schematic for the RA1772?

Possibly from Telford in the UK, they have been selling manuals on eBay
recently, but not that cheap.... Most of the 1772s I've seen recently
have had big problems also, wiring round the power supply degraded by
heat and so on... Bonne chance!
Dan
ac6ao / g3ncr
http://www.telford-electronics.com/

300. manual RA1772

Yahoo group: Racal6790GM
Date: 2005-09-29 20:15:31 UTC
From: Nico
Topic: 300 Message: 300

I have the complete manual of the 1772

Nico

301. Microcontroller Board problems

Yahoo group: Racal6790GM
Date: 2005-10-07 03:01:41 UTC
From: Michael St. Angelo
Topic: 301 Message: 301

I have a RA6790 Microcontroller board that I'm trying to repair..

The set does not boot up; I get all zeroes on the frequency display. The self test does not run.

I removed the battery and checked for corossion and replaced the Tantalum caps. The crystal clock is operating.
Does anyone have any idea what to troubleshoot next?

Someone recomended replacing the 3850 cpu and 3853 memory interface chips. Does anyone know a source for these chips.

Thanks,

Mike N2MS

[Non-text portions of this message have been removed]

302. Re: [Racal6790GM] Microcontroller Board problems

Yahoo group: Racal6790GM
Date: 2005-10-08 14:46:57 UTC
From: Gary Wingerd
Topic: 301 Message: 302

A6A2 Troubleshooting

Error 14 BITE

Troubleshooting the A6A2 card, I had to replace the RAMS U7 & U8 5101L

All zeros on the front panel, A6A2U1 pin 1 no Clock output, replaced U1 and the board is repaired.

A6A2 Troubleshooting

Front panel all zeros A6A2U1 and A6A2U13 defective.

Front panel all zeros A6A2U1 defective.

Front panel all zeros A6A2R2 open.

Front panel all zeros A6A2U1 and A6A2Y1 defective.

Receiver intermittent Front Panel Crash and messed up display, Changed Interface chip A6A2U2 and installed new sockets for the software.

A6A2 Troubleshooting

Only Man, Long and Medium AGC working, Remote Key will not stay on A6A2U8 Ram Bad.

Front Panel all zero's replaced A6A2U10

A6A2 Troubleshooting Schematic Corrections

Figure 7-8 Table at bottom of page

+5 doesn't go to U7 per the Table at bottom of page.

+5 goes to U14 pin 21 and 24.

+15 U9 pin 1.

U1
U2
U3
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U9
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GND
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+5
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+12

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+15

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A6A2 Troubleshooting

The ground to more than 2/3 of the board is done by the BT1 Ground clad eyelet; if it is not there the board will not function.

7-9-2004

No ground for the board, IE: no clock, added ground wire and it works.

Bad set of RAM's on one board today.

A6U13 bad on another board today.

A6A2 Troubleshooting

Cleaning the board when battery has leaked? Baking soda and vinegar works to remove most of the acid that has interacted with the copper on the board.

I also use an ultrasonic cleaner with water to remove some of the acid.

----- Original Message -----
From: Michael St. Angelo
To: Racal6790GM@yahoogroups.com
Sent: Thursday, October 06, 2005 8:01 PM
Subject: [Racal6790GM] Microcontroller Board problems

I have a RA6790 Microcontroller board that I'm trying to repair..

The set does not boot up; I get all zeroes on the frequency display. The self test does not run.

I removed the battery and checked for corossion and replaced the Tantalum caps. The crystal clock is operating.
Does anyone have any idea what to troubleshoot next?

Someone recomended replacing the 3850 cpu and 3853 memory interface chips. Does anyone know a source for these chips.

Thanks,

Mike N2MS

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

303. Re: [Racal6790GM] Microcontroller Board problems

Yahoo group: Racal6790GM
Date: 2005-10-08 14:45:49 UTC
From: Gary Wingerd
Topic: 301 Message: 303

A6A2 Troubleshooting

Error 14 BITE

Troubleshooting the A6A2 card, I had to replace the RAMS U7 & U8 5101L

All zeros on the front panel, A6A2U1 pin 1 no Clock output, replaced U1 and the board is repaired.

A6A2 Troubleshooting

Front panel all zeros A6A2U1 and A6A2U13 defective.

Front panel all zeros A6A2U1 defective.

Front panel all zeros A6A2R2 open.

Front panel all zeros A6A2U1 and A6A2Y1 defective.

Receiver intermittent Front Panel Crash and messed up display, Changed Interface chip A6A2U2 and installed new sockets for the software.

A6A2 Troubleshooting

Only Man, Long and Medium AGC working, Remote Key will not stay on A6A2U8 Ram Bad.

Front Panel all zero's replaced A6A2U10

A6A2 Troubleshooting Schematic Corrections

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U1
U2
U3
U4
U5
U6
U7
U8
U9
U10
U11

U12
U13
U14

GND
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GND
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+5
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+5
4

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+12

2

+15

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A6A2 Troubleshooting

The ground to more than 2/3 of the board is done by the BT1 Ground clad eyelet; if it is not there the board will not function.

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A6A2 Troubleshooting

Cleaning the board when battery has leaked? Baking soda and vinegar works to remove most of the acid that has interacted with the copper on the board.

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Thanks,

Mike N2MS

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

304. Re: [Racal6790GM] Microcontroller Board problems

Yahoo group: Racal6790GM
Date: 2005-10-08 14:48:34 UTC
From: Gary Wingerd
Topic: 301 Message: 304

A6A2 Troubleshooting

Error 14 BITE

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All zeros on the front panel, A6A2U1 pin 1 no Clock output, replaced U1 and the board is repaired.

A6A2 Troubleshooting

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A6A2 Troubleshooting Schematic Corrections

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U1
U2
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U13
U14

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GND
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A6A2 Troubleshooting

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Thanks,

Mike N2MS

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[Non-text portions of this message have been removed]

305. Re: [Racal6790GM] Microcontroller Board problems

Yahoo group: Racal6790GM
Date: 2005-10-09 02:00:09 UTC
From: Michael St. Angelo
Topic: 301 Message: 305

Gary,

Thanks for the tips! Where can I get the RAM IC's ?

The are strings if IC designations and pins for the various voltages
that were not corollated. See below. I believe the line feeds screwed up the
format.
Could you please resend or send in a word attachment?

I appreciate your help.

Mike N2MS

----- Original Message -----
From: "Gary Wingerd" <gewingerd@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, October 08, 2005 10:46 AM
Subject: Re: [Racal6790GM] Microcontroller Board problems

> A6A2 Troubleshooting Schematic Corrections
>
> Figure 7-8 Table at bottom of page
>
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306. Re: [Racal6790GM] Microcontroller Board problems

Yahoo group: Racal6790GM
Date: 2005-10-10 18:53:02 UTC
From: Gary Wingerd
Topic: 301 Message: 306

A6A2 Troubleshooting Schematic Corrections

Figure 7-8 Table at bottom of page

+5 doesn't go to U7 per the Table at bottom of page.

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+5
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+15

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----- Original Message -----
From: Michael St. Angelo
To: Racal6790GM@yahoogroups.com
Sent: Saturday, October 08, 2005 7:00 PM
Subject: Re: [Racal6790GM] Microcontroller Board problems

Gary,

Thanks for the tips! Where can I get the RAM IC's ?

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that were not corollated. See below. I believe the line feeds screwed up the
format.
Could you please resend or send in a word attachment?

I appreciate your help.

Mike N2MS

----- Original Message -----
From: "Gary Wingerd" <gewingerd@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, October 08, 2005 10:46 AM
Subject: Re: [Racal6790GM] Microcontroller Board problems

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[Non-text portions of this message have been removed]

307. Re: [Racal6790GM] Microcontroller Board problems

Yahoo group: Racal6790GM
Date: 2005-10-10 19:06:28 UTC
From: Dan Rae
Topic: 301 Message: 307

> Thanks for the tips! Where can I get the RAM IC's ?

In case nobody has answered that part of the query...

The last pair I got from Jameco were fine (www.jameco.com, under SRAM, part # 42198), but I had a string of 6 dead ones from them in the past. They are very susceptible to ESD damage, so use appropriate precautions. Fit sockets if you replace any ICs on that board, it may cost a little, but it's a good investment for the future. The rebranding people NTE and ECG will probably still have them as well if that is easier for you.
73
Dan
ac6ao / g3ncr

308. RE: [Racal6790GM] Microcontroller Board problems

Yahoo group: Racal6790GM
Date: 2005-10-10 19:11:28 UTC
From: Carcia, Francis A HS
Topic: 301 Message: 308

You need to wear an ESD wrist strap when handling these old RAMs before the days of
ESD ratings of 4KV. Remember the old 4000A CMOS days. Make sure the strap and radio chassis are properly grounded.

-----Original Message-----
From: Dan Rae [mailto:danrae@...]
Sent: Monday, October 10, 2005 3:06 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Microcontroller Board problems

> Thanks for the tips! Where can I get the RAM IC's ?

In case nobody has answered that part of the query...

The last pair I got from Jameco were fine (www.jameco.com, under SRAM, part # 42198), but I had a string of 6 dead ones from them in the past. They are very susceptible to ESD damage, so use appropriate precautions. Fit sockets if you replace any ICs on that board, it may cost a little, but it's a good investment for the future. The rebranding people NTE and ECG will probably still have them as well if that is easier for you.
73
Dan
ac6ao / g3ncr

Yahoo! Groups Links

309. Re: [Racal6790GM] Microcontroller Board problems

Yahoo group: Racal6790GM
Date: 2005-10-10 18:53:02 UTC
From: Gary Wingerd
Topic: 301 Message: 309

A6A2 Troubleshooting Schematic Corrections

Figure 7-8 Table at bottom of page

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+15 U9 pin 1.

U1
U2
U3
U4
U5
U6
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U10
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[Non-text portions of this message have been removed]

310. LCD frequecy display segment failure

Yahoo group: Racal6790GM
Date: 2005-10-17 21:10:45 UTC
From: Nico
Topic: 310 Message: 310

Hi 6790 Technicians

After a week hard work on my RA6790 he is working again !!!!!!
and have a 100% byte test.

I just have to resolve a cosmetic display problem
perhaps you can help me to solv the following
lcd problem.

the upper horisontal segment of the 5th numerical part of
the frequency display don't work I am sure the display
is 100% ok.

I am sure that one of the decoder/driver chips are bad I hope that
there is a member how can tel me which chip i have to remove and
replace to resolve this cosmetic problem.....

Thanks Nico

311. Re: [Racal6790GM] LCD frequecy display segment failure

Yahoo group: Racal6790GM
Date: 2005-10-17 22:59:03 UTC
From: Dan Rae
Topic: 310 Message: 311

Nico wrote:

>
> the upper horisontal segment of the 5th numerical part of
> the frequency display don't work I am sure the display
> is 100% ok.

That is the "A" segment and is driven by pin 9 of the relevant 4056 IC.
I would check that you have a square wave on that pin of the correct
phase to drive the display, compare it with one of the other drivers,
before removing it. It looks like U33 is the one, but the manual is not
that clear and you'd be well advised to look closely first to see which
one drives that digit. If you are sure that the display is good
that's pretty much all that can be wrong, but I have seen bad
connections within the display itself.

Good luck
Dan
ac6ao / g3ncr

312. Unusual 6790GM

Yahoo group: Racal6790GM
Date: 2005-10-23 02:01:19 UTC
From: maxhdrm2
Topic: 312 Message: 312

There are some current auctions for several Racal 6790GMs on EBay from one seller in various condition, Some being sold as parts units. I did notice this one as being unusual http://cgi.ebay.com/Racal-RA6790-GM-Radio-Receiver_W0QQitemZ5821094612QQcategoryZ4673QQrdZ1QQcmdZViewItem
Great way to get a parts unit or make one whole.
Thought I would pass it on to the group. Max

313. Re: [Racal6790GM] Unusual 6790GM

Yahoo group: Racal6790GM
Date: 2005-10-23 02:56:41 UTC
From: Gary Wingerd
Topic: 312 Message: 313

It looks like a R2174B, you have to change a bunch of stuff to get any
usable audio out of it.

thanks,
Gary
----- Original Message -----
From: "maxhdrm2" <maxhdrm2@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, October 22, 2005 7:01 PM
Subject: [Racal6790GM] Unusual 6790GM

> There are some current auctions for several Racal 6790GMs on EBay from
> one seller in various condition, Some being sold as parts units. I did
> notice this one as being unusual http://cgi.ebay.com/Racal-RA6790-GM-
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> Great way to get a parts unit or make one whole.
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> Yahoo! Groups Links
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314. Re: [Racal6790GM] Unusual 6790GM

Yahoo group: Racal6790GM
Date: 2005-10-24 13:55:39 UTC
From: oscar873@aol.com
Topic: 312 Message: 314

Gary,
What are the ones with the Anzac modules in them?
Do you have any info on the R2174B?
Al

-----Original Message-----
From: Gary Wingerd <gewingerd@...>
To: Racal6790GM@yahoogroups.com
Sent: Sat, 22 Oct 2005 19:56:41 -0700
Subject: Re: [Racal6790GM] Unusual 6790GM

It looks like a R2174B, you have to change a bunch of stuff to get any
usable audio out of it.

thanks,
Gary
----- Original Message -----
From: "maxhdrm2" <maxhdrm2@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, October 22, 2005 7:01 PM
Subject: [Racal6790GM] Unusual 6790GM

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

315. RE: [Racal6790GM] Unusual 6790GM

Yahoo group: Racal6790GM
Date: 2005-10-24 14:00:59 UTC
From: Carcia, Francis A HS
Topic: 312 Message: 315

I wonder if that is a high dynamic range front end. Anzac amplifiers and
mixers to replace the second mixer. ???

-----Original Message-----
From: oscar873@... [mailto:oscar873@...]
Sent: Monday, October 24, 2005 9:56 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Unusual 6790GM

Gary,
What are the ones with the Anzac modules in them?
Do you have any info on the R2174B?
Al

-----Original Message-----
From: Gary Wingerd <gewingerd@...>
To: Racal6790GM@yahoogroups.com
Sent: Sat, 22 Oct 2005 19:56:41 -0700
Subject: Re: [Racal6790GM] Unusual 6790GM

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> There are some current auctions for several Racal 6790GMs on EBay from
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> notice this one as being unusual http://cgi.ebay.com/Racal-RA6790-GM-
> Radio-Receiver_W0QQitemZ5821094612QQcategoryZ4673QQrdZ1QQcmdZViewItem
> Great way to get a parts unit or make one whole.
> Thought I would pass it on to the group. Max
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Yahoo! Groups Links

[Non-text portions of this message have been removed]

Yahoo! Groups Links

316. Re: [Racal6790GM] Unusual 6790GM

Yahoo group: Racal6790GM
Date: 2005-10-24 22:34:06 UTC
From: Mil Radman
Topic: 312 Message: 316

What exactly are those boards pictured where the A5 board normally is positioned? Are these swapable with the R-2174? He advertises some R-2174As with what appears to be the same boards installed. Someone please explain. According to Jane's, the R-2174B is ELF capable to 1Khz and this sparks an interest.
Thanks,
John

Gary Wingerd <gewingerd@...> wrote:
It looks like a R2174B, you have to change a bunch of stuff to get any
usable audio out of it.

thanks,
Gary
----- Original Message -----
From: "maxhdrm2" <maxhdrm2@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, October 22, 2005 7:01 PM
Subject: [Racal6790GM] Unusual 6790GM

> There are some current auctions for several Racal 6790GMs on EBay from
> one seller in various condition, Some being sold as parts units. I did
> notice this one as being unusual http://cgi.ebay.com/Racal-RA6790-GM-
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[Non-text portions of this message have been removed]

317. Racal 6790/GM R-2174B

Yahoo group: Racal6790GM
Date: 2005-10-25 17:07:36 UTC
From: gldinnc
Topic: 317 Message: 317

A few months ago I acquired a Racal RA6790/GM with the designation R-2174B. It appears to be the VLF version. It was built 4/92.

Externally it has the following differences from the R-2174 (A).

1. It tunes down to 9kHz. Below 9kHz the frequency display flashes, but it still tunes.

2. On the rear panel there are additional connections:
VLF Ant In (N connector)
3rd IF out (BNC)
AM Out (BNC)
FM Out (BNC)

3. Inside there are 5 additional assemblies:

A14 & A15 (these two are stacked where the ISB option board goes. These could be preamplifiers?

A24 ☐ stacked over the main board on a neat hinged construction. This may be a preselection filter.

A23 & A25 ☐ enclosed in small boxes. These could be for Switching?

There is a set of instructions on the A24 cover describing filter set up. It must be done manually (no room in the rom after adding VLF code?). The filters are mostly narrow, BTW.

The radio has the computer control board installed as well ☐ I wonder if this is standard.

The radio does fine on Shortwave AM. I have not yet checked out SSB or CW.

What can anyone tell me about this radio? I intend to explore more, but some guidance would be appreciated.

Gordon, KA2NLM

318. RE: [Racal6790GM] Racal 6790/GM R-2174B

Yahoo group: Racal6790GM
Date: 2005-10-25 17:31:05 UTC
From: Carcia, Francis A HS
Topic: 317 Message: 318

Gordon.
I have some of those boards. I suspect the third IF is 6.4 KHz as in the RA6830 used for the DF processor. The extra demodulator board may be ISB signals. fc

-----Original Message-----
From: gldinnc [mailto:GLDuff@...]
Sent: Tuesday, October 25, 2005 1:08 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Racal 6790/GM R-2174B

A few months ago I acquired a Racal RA6790/GM with the designation R-2174B. It appears to be the VLF version. It was built 4/92.

Externally it has the following differences from the R-2174 (A).

1. It tunes down to 9kHz. Below 9kHz the frequency display flashes, but it still tunes.

2. On the rear panel there are additional connections:
VLF Ant In (N connector)
3rd IF out (BNC)
AM Out (BNC)
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The radio has the computer control board installed as well - I wonder if this is standard.

The radio does fine on Shortwave AM. I have not yet checked out SSB or CW.

What can anyone tell me about this radio? I intend to explore more, but some guidance would be appreciated.

Gordon, KA2NLM

Yahoo! Groups Links

319. Re: [Racal6790GM] Unusual 6790GM

Yahoo group: Racal6790GM
Date: 2005-10-26 18:02:49 UTC
From: Gary Wingerd
Topic: 312 Message: 319

Here is what I received from a fellow just today;

Externally it has the following differences from the R-2174 (A).

1. It tunes down to 9kHz. Below 9kHz the frequency display flashes,
but it still tunes.

2. On the rear panel there are additional connections:
VLF Ant In (N connector)
3rd IF out (BNC)
AM Out (BNC)
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3. Inside there are 5 additional assemblies:

A14 & A15 (these two are stacked where the ISB option
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A24 - stacked over the main board on a neat hinged
construction. This may be a preselection filter.

A23 & A25 - enclosed in small boxes. These could be for
Switching?

There is a set of instructions on the A24 cover describing filter set
up. It must be done manually (no room in the rom after adding VLF
code?). The filters are mostly narrow, BTW.

Thanks,
Gary

----- Original Message -----
From: Mil Radman
To: Racal6790GM@yahoogroups.com
Sent: Monday, October 24, 2005 3:34 PM
Subject: Re: [Racal6790GM] Unusual 6790GM

What exactly are those boards pictured where the A5 board normally is positioned? Are these swapable with the R-2174? He advertises some R-2174As with what appears to be the same boards installed. Someone please explain. According to Jane's, the R-2174B is ELF capable to 1Khz and this sparks an interest.
Thanks,
John

Gary Wingerd <gewingerd@...> wrote:
It looks like a R2174B, you have to change a bunch of stuff to get any
usable audio out of it.

thanks,
Gary
----- Original Message -----
From: "maxhdrm2" <maxhdrm2@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, October 22, 2005 7:01 PM
Subject: [Racal6790GM] Unusual 6790GM

> There are some current auctions for several Racal 6790GMs on EBay from
> one seller in various condition, Some being sold as parts units. I did
> notice this one as being unusual http://cgi.ebay.com/Racal-RA6790-GM-
> Radio-Receiver_W0QQitemZ5821094612QQcategoryZ4673QQrdZ1QQcmdZViewItem
> Great way to get a parts unit or make one whole.
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[Non-text portions of this message have been removed]

320. RE: [Racal6790GM] Unusual 6790GM

Yahoo group: Racal6790GM
Date: 2005-10-26 18:11:29 UTC
From: Carcia, Francis A HS
Topic: 312 Message: 320

Gary,
I know one board is an am/fm demodulator because you sold me one once.
I suspect the other board is the ISB board so maybe ISB has the demodulator
board
Connected to it. The ISB board only has a 1496 with a bfo input for SSB / CW
demodulation. Then I bet the two demodulated outputs AM/FM go to the rear
panel connectors since the cross matrix switch can't handle two more
signals.

-----Original Message-----
From: Gary Wingerd [mailto:gewingerd@...]
Sent: Wednesday, October 26, 2005 2:03 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Unusual 6790GM

Here is what I received from a fellow just today;

Externally it has the following differences from the R-2174 (A).

1. It tunes down to 9kHz. Below 9kHz the frequency display flashes,
but it still tunes.

2. On the rear panel there are additional connections:
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Switching?

There is a set of instructions on the A24 cover describing filter set
up. It must be done manually (no room in the rom after adding VLF
code?). The filters are mostly narrow, BTW.

Thanks,
Gary

----- Original Message -----
From: Mil Radman

To: Racal6790GM@yahoogroups.com
Sent: Monday, October 24, 2005 3:34 PM
Subject: Re: [Racal6790GM] Unusual 6790GM

What exactly are those boards pictured where the A5 board normally is positioned? Are these swapable with the R-2174? He advertises some R-2174As with what appears to be the same boards installed. Someone please explain. According to Jane's, the R-2174B is ELF capable to 1Khz and this sparks an interest.
Thanks,
John

Gary Wingerd <gewingerd@...> wrote:
It looks like a R2174B, you have to change a bunch of stuff to get any usable audio out of it.

thanks,
Gary
----- Original Message -----
From: "maxhdrm2" <maxhdrm2@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, October 22, 2005 7:01 PM
Subject: [Racal6790GM] Unusual 6790GM

> There are some current auctions for several Racal 6790GMs on EBay from
> one seller in various condition, Some being sold as parts units. I did
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> Radio-Receiver_W0QQitemZ5821094612QQcategoryZ4673QQrdZ1QQcmdZViewItem
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321. Re: [Racal6790GM] Unusual 6790GM

Yahoo group: Racal6790GM
Date: 2005-10-27 15:49:55 UTC
From: oscar873@aol.com
Topic: 312 Message: 321

Has anyone found a manual on these R2174B's?
Jane's says that they go down to 1 Khz and up to 29,999. khz.
I would like to know where these switch over to the ELF antenna?
What needs to be changed to get good audio out of it?
Al

-----Original Message-----
From: Mil Radman <milradman@...>
To: Racal6790GM@yahoogroups.com
Sent: Mon, 24 Oct 2005 15:34:06 -0700 (PDT)
Subject: Re: [Racal6790GM] Unusual 6790GM

What exactly are those boards pictured where the A5 board normally is
positioned? Are these swapable with the R-2174? He advertises some R-2174As with
what appears to be the same boards installed. Someone please explain. According
to Jane's, the R-2174B is ELF capable to 1Khz and this sparks an interest.
Thanks,
John

Gary Wingerd <gewingerd@...> wrote:
It looks like a R2174B, you have to change a bunch of stuff to get any
usable audio out of it.

thanks,
Gary
----- Original Message -----
From: "maxhdrm2" <maxhdrm2@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, October 22, 2005 7:01 PM
Subject: [Racal6790GM] Unusual 6790GM

> There are some current auctions for several Racal 6790GMs on EBay from
> one seller in various condition, Some being sold as parts units. I did
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322. More on Racal 6790/GM R-2174(B)

Yahoo group: Racal6790GM
Date: 2005-10-30 23:04:53 UTC
From: gldinnc
Topic: 322 Message: 322

I have continued to investigate this radio and am still looking for help to understand how it works. I have traced the wiring for the various additional boards and put the radio back together.

In a previous posting I mentioned that the display flashed below a certain frequency. The correct frequency is 2 kHz. Below 2k the tuning works but the frequency display flashes.

Another operating difference is an apparent internal switch when the frequency passes thru the 110 kHz range. This seems to differ based on traversing up or down. I will investigate this more later.

At MW and higher the radio's audio seems fine via headphones for AM, SSB, and CW.

I have compared boards at a high level with 2 other 6790 A versions and they are apparently the same except for the A2 board. Based on the signal paths I don't see why A2 would make any difference. Need to check this out.

On the extra boards:

1. The A23 board is connected to the VLF antenna input and to the A25 board; I guess it is a low pass filter.

2. The A14 board supplies the external 3rd IF output at about 15kHz, and also the IF output at 455kHz (it may get this via A24 and A25). It appears to do product detection of some sort via a CD4049. It has a dip switch, too!

3. The A15 board supplies AM and FM output.

4. A24 gets the 455kHz IF from A8(J6) and returns it to A4(J1). It has a MCL RAY-6 mixer, among other components. It has a great big box labeled as a notch filter with a center frequency of 277.777 kHz and a bandwidth of 128 kHZ.

5. A25 get RF via the A23, 20MHz from A8(J8) and a bunch of stuff from A24. It also has a MCL RAY-6 mixer.

I am going to try and put this all in a diagram, but at this point I have two questions:

A. Does anyone know anymore?
B. Does anyone care, or should I stop posting?

Gordon, KA2NLM

323. Re: [Racal6790GM] More on Racal 6790/GM R-2174(B)

Yahoo group: Racal6790GM
Date: 2005-10-31 00:08:38 UTC
From: Ed Tanton
Topic: 322 Message: 323

It's still interesting for me.

///snip

>B. Does anyone care, or should I stop posting?
>
>Gordon, KA2NLM
>
>----------

Ed Tanton

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"Right is right, even if everyone is
against it; and wrong is wrong, even
if everyone is for it."

William Penn
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324. Re: [Racal6790GM] Digest Number 136

Yahoo group: Racal6790GM
Date: 2005-10-31 17:36:37 UTC
From: daveinbham@aol.com
Topic: 324 Message: 324

Does anyone have schematic diagrams and/or alignment instructions for the A15 board ?
I somehow managed to acquire a couple of the A15 boards with some other Racal stuff I bought last year when I was trying to find an ISB board. It would be nice to be able to use them.

Kindest regards,
Dave

****
****
3. The A15 board supplies AM and FM output.

[Non-text portions of this message have been removed]

325. RE: [Racal6790GM] Digest Number 136

Yahoo group: Racal6790GM
Date: 2005-10-31 17:43:29 UTC
From: Carcia, Francis A HS
Topic: 324 Message: 325

Dave,
I would think all you have to do is set the FM inductor to the CF. This circuit is the same as the circuit in the 6790. The AM would only need the level pot set to the output you want without saturating. I have one of those boards and fired it up. I think it is all just a copy of the standard demodulator. The ISB board only does CW and SSB with a 1496 driven by the bfo. This extra board allows Am and FM on ISB. fc

-----Original Message-----
From: daveinbham@... [mailto:daveinbham@...]
Sent: Monday, October 31, 2005 12:37 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Digest Number 136

Does anyone have schematic diagrams and/or alignment instructions for the
A15
board ?
I somehow managed to acquire a couple of the A15 boards with some other
Racal
stuff I bought last year when I was trying to find an ISB board. It would be

nice to be able to use them.

Kindest regards,
Dave
****
**
****
3. The A15 board supplies AM and FM output.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

326. 6790 control software.

Yahoo group: Racal6790GM
Date: 2005-11-06 19:21:16 UTC
From: H@ns
Topic: 326 Message: 326

Being new to the group is it possible to give me some hints on the
control software for the 1792 and 6790 RX? If possible free like HRD
which I am using on several TX an RX.
I found something in the foto section.

laptop screenshot
Posted: 16-May-2004 - Resolution: 400 x 300
Thumbnail: 1 KB | Screen Size: 13 KB | Full Size: 260 KB

Tnx and greetings from Amsterdam.

H@ns

327. Re: [Racal6790GM] 6790 control software.

Yahoo group: Racal6790GM
Date: 2005-11-07 19:08:56 UTC
From: Gary Wingerd
Topic: 326 Message: 327

These are the commands for the RA6790/GM RS232 Remote Interface, ADDRESS IS 37

ENTRY RESPONSE

$37S2 REMOTE Illuminates

S1 LOCAL, REMOTE GOES OFF

S2 REMOTE Illuminates

S3 STARTS BITE

S4 ENDS BITE

G GETS CURRENT RECEIVER SETTINGS

I .4 BW .4 KHz Selected

I 1 BW 1 KHz Selected

I 3 BW 3 KHz Selected

I 6 BW 6 KHz Selected

I 16 BW 16 KHz Selected

M1 AGC SHORT Selected

M2 AGC MEDIUM Selected

M3 AGC LONG Selected

M4 AGC MAN Selected

M5 AGC MAN/SHORT Selected

M6 AGC MAN/MEDIUM Selected

M7 AGC MAN/LONG Selected

B1.11 BFO +1.11

B-8.00 BFO -8.00

B8.00 BFO +8.00

F12.345678 FREQUENCY = 12.345678

F10.99 FREQUENCY = 10.99

D1 AM Selected

D2 FM Selected

D3 CW, BFO +8.00 Selected

D4 CW, BFO +0. Selected

D6 LSB Selected

D7 USB Selected

GARY E. WINGERD

GEW Electronic Repair Service

9107 JORDAN RD.

FAIRPLAY, MD. 21733

301-582-2424

gewingerd@...

gewingerd@...

----- Original Message -----
From: H@ns
To: Racal6790GM@yahoogroups.com
Sent: Sunday, November 06, 2005 11:21 AM
Subject: [Racal6790GM] 6790 control software.

Being new to the group is it possible to give me some hints on the
control software for the 1792 and 6790 RX? If possible free like HRD
which I am using on several TX an RX.
I found something in the foto section.

laptop screenshot
Posted: 16-May-2004 - Resolution: 400 x 300
Thumbnail: 1 KB | Screen Size: 13 KB | Full Size: 260 KB

Tnx and greetings from Amsterdam.

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328. 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-07 20:17:33 UTC
From: oscar873@aol.com
Topic: 328 Message: 328

Looking for information on these.
3 or 4 Anzac RF blocks where the ISB board is normaly mounted. Top boards are all different. Tunes .500 to 29.999 mhz. V BFO. BW 10.0 1.0 0.7 khz Long filter pigy backed on top board behind the front panel.
No data on this filter except manufacture. Military canon connector for buss input.
Has sma outputs for 1st, 2nd, and 3rd LO on the back as well as an IF output. Other features are like the 6790 GM SN range 8xxx Does not seem to receive, just back ground noise.
Thanks
Al

[Non-text portions of this message have been removed]

329. RE: [Racal6790GM] 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-08 13:33:23 UTC
From: Carcia, Francis A HS
Topic: 328 Message: 329

What are the part numbers on the Anzac blocks maybe I can tell you what they do.

-----Original Message-----
From: oscar873@... [mailto:oscar873@...]
Sent: Monday, November 07, 2005 3:18 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790GM R2174A/URR New Variation

Looking for information on these.
3 or 4 Anzac RF blocks where the ISB board is normaly mounted. Top boards are all different. Tunes .500 to 29.999 mhz. V BFO. BW 10.0 1.0 0.7 khz
Long filter pigy backed on top board behind the front panel.
No data on this filter except manufacture. Military canon connector for buss input.
Has sma outputs for 1st, 2nd, and 3rd LO on the back as well as an IF output. Other features are like the 6790 GM SN range 8xxx Does not seem to receive, just back ground noise.
Thanks
Al

[Non-text portions of this message have been removed]

Yahoo! Groups Links

330. Re: [Racal6790GM] 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-08 18:07:27 UTC
From: oscar873@aol.com
Topic: 328 Message: 330

FC,
I will get the Anzac part numbers an get back to you. Some are printed and others are hand drawn.
I did not find a catalog for Anzac modules.
Al
-----Original Message-----
From: Carcia, Francis A HS <francis.carcia@...>
To: Racal6790GM@yahoogroups.com
Sent: Tue, 8 Nov 2005 08:33:23 -0500
Subject: RE: [Racal6790GM] 6790GM R2174A/URR New Variation

What are the part numbers on the Anzac blocks maybe I can tell you what they do.

-----Original Message-----
From: oscar873@... [mailto:oscar873@...]
Sent: Monday, November 07, 2005 3:18 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790GM R2174A/URR New Variation

Looking for information on these.
3 or 4 Anzac RF blocks where the ISB board is normaly mounted. Top boards are all different. Tunes .500 to 29.999 mhz. V BFO. BW 10.0 1.0 0.7 khz
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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

331. RE: [Racal6790GM] 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-08 20:19:00 UTC
From: Carcia, Francis A HS
Topic: 328 Message: 331

Racal built some special modules for the RA6830 DF receivers that used the AM147 amplifier. They replaced the second mixer and were high dynamic range. Then they put a digital step attenuator at the antenna and a digital IF strip switching in fixed gain stages. The radio is useless for communications but I have modified the module to work in a standard radio. It gives me 100 dB of dynamic range at 20 KHz signal spacing. I had to add agc to the module and additional gain at 455 KHz. Since I have found an even stronger module that also uses the AM147 but has 10 db more lo drive for the second mixer a ray 6.
I had to modify the tuned circuits because it came from a RA6840 with different IFs.
Your radio may have similar function if the parts have replaced the second mixer. Also Racal had a board that converted the 455 kHz IF to 6.4 KHz base band then a model that converted to I/Q at 45 KHz if I can remember. All this is DF related hardware but might be a cool interface to a sound card DSP demodulator. fc

-----Original Message-----
From: oscar873@... [mailto:oscar873@...]
Sent: Tuesday, November 08, 2005 1:07 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] 6790GM R2174A/URR New Variation

FC,
I will get the Anzac part numbers an get back to you. Some are printed and others are hand drawn.
I did not find a catalog for Anzac modules.
Al
-----Original Message-----
From: Carcia, Francis A HS <francis.carcia@...>
To: Racal6790GM@yahoogroups.com
Sent: Tue, 8 Nov 2005 08:33:23 -0500
Subject: RE: [Racal6790GM] 6790GM R2174A/URR New Variation

What are the part numbers on the Anzac blocks maybe I can tell you what they do.

-----Original Message-----
From: oscar873@... [mailto:oscar873@...]
Sent: Monday, November 07, 2005 3:18 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790GM R2174A/URR New Variation

Looking for information on these.
3 or 4 Anzac RF blocks where the ISB board is normaly mounted. Top boards are all different. Tunes .500 to 29.999 mhz. V BFO. BW 10.0 1.0 0.7 khz

Long filter pigy backed on top board behind the front panel.
No data on this filter except manufacture. Military canon connector for buss input.
Has sma outputs for 1st, 2nd, and 3rd LO on the back as well as an IF output. Other features are like the 6790 GM SN range 8xxx Does not seem to receive, just back ground noise.
Thanks
Al

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

[Non-text portions of this message have been removed]

Yahoo! Groups Links

332. RE: [Racal6790GM] 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-08 21:11:52 UTC
From: Gordon & Lois Duff
Topic: 328 Message: 332

Al & Frank,

I have a 6790 R2174B that has an A14 board. This board can provide a 3rd IF out in any multiple of 5 kHz from 5 kHz to 100 kHz. The A14 takes a 20 MHz reference signal from A8 (J8), passed through the A25 board and mixes it with the 455kHz IF from A4, passed thru A15. The A14 board has an 8 position dip switch that controls divide by circuitry operating on the 20 MHz signal.

Gordon.

[Non-text portions of this message have been removed]

333. Re: 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-09 16:48:17 UTC
From: RICH
Topic: 328 Message: 333

The ANZAC(Russel Adams)/MACOM AM-147(TO-8-1)/AMC-147(C-6) is a 5-500MHz, 17dB amplifier. 2IP +38dBm, 3IP +28dBm, +15VDC 50mA.
RICH WA6KNW

334. Re: 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-09 16:48:29 UTC
From: RICH
Topic: 328 Message: 334

The ANZAC(Russel Adams)/MACOM AM-147(TO-8-1)/AMC-147(C-6) is a 5-500MHz, 17dB amplifier. 2IP +38dBm, 3IP +28dBm, +15VDC 50mA.
RICH WA6KNW

335. RE: [Racal6790GM] Re: 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-09 16:54:17 UTC
From: Carcia, Francis A HS
Topic: 328 Message: 335

Yup same part is used in the 6830 DF receiver but it is board mounted, low noise also.

-----Original Message-----
From: RICH [mailto:sgm460122@...]
Sent: Wednesday, November 09, 2005 11:48 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: 6790GM R2174A/URR New Variation

The ANZAC(Russel Adams)/MACOM AM-147(TO-8-1)/AMC-147(C-6) is a 5-500MHz, 17dB amplifier. 2IP +38dBm, 3IP +28dBm, +15VDC 50mA.
RICH WA6KNW

Yahoo! Groups Links

336. Re: [Racal6790GM] 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-10 21:03:37 UTC
From: oscar873@aol.com
Topic: 328 Message: 336

fc,
Here are the part numbers or discriptions.
Salisbury Eng. Inc. LEX 8-125 X3 M/M
ANZAC AM110 0.5-500mhz
ANZAC MD140 outputs marked LO RF IF
ANZAC #7 hand labeled LPF 60KHZ plus a 39db op amp
ANZAC #8 Hand labeled 39 db op amp

Another big filter is mounted piggy back over A4 where the six filters are normaly installed. It is a 455khz 3.4khz wide which is tied to the AM110. The AM110 out goes to the RF in of the MD140. The LO of the MD140 goes to the rear panel and is labeled 3rd LO. The IF/MD140 goes to the 60khz LPF with the 39 db amp and on to the Salisbury filter?. The out goes to the #8 op amp and the out goes to the rear panel and is marked "out".
The input to the 455khz 3.4khz has a "T". one may go to the back panel and the other goes to the pcb's
Looking at the bottom of the receiver, the A7 and A8 pcb are mostly disconected. Both ribbon cables and sma cables are disconected.
Al

--Original Message-----
From: Carcia, Francis A HS <francis.carcia@...>
To: Racal6790GM@yahoogroups.com
Sent: Tue, 8 Nov 2005 08:33:23 -0500
Subject: RE: [Racal6790GM] 6790GM R2174A/URR New Variation

What are the part numbers on the Anzac blocks maybe I can tell you what they do.

-----Original Message-----
From: oscar873@... [mailto:oscar873@...]
Sent: Monday, November 07, 2005 3:18 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790GM R2174A/URR New Variation

Looking for information on these.
3 or 4 Anzac RF blocks where the ISB board is normaly mounted. Top boards are all different. Tunes .500 to 29.999 mhz. V BFO. BW 10.0 1.0 0.7 khz
Long filter pigy backed on top board behind the front panel.
No data on this filter except manufacture. Military canon connector for buss input.
Has sma outputs for 1st, 2nd, and 3rd LO on the back as well as an IF output. Other features are like the 6790 GM SN range 8xxx Does not seem to receive, just back ground noise.
Thanks
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[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

[Non-text portions of this message have been removed]

337. Re: [Racal6790GM] 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-10 21:22:58 UTC
From: Dan Rae
Topic: 328 Message: 337

oscar873@... wrote:

>
> Looking at the bottom of the receiver, the A7 and A8 pcb are mostly
> disconnected. Both ribbon cables and sma cables are disconnected.

Whatever else is different about this radio it will certainly not work
with the A7 and A8 boards disconnected!
dr

338. RE: [Racal6790GM] 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-10 21:21:57 UTC
From: Carcia, Francis A HS
Topic: 328 Message: 338

Sounds simple to me below
AM110 amplifier
MD double balanced mixer
It looks like a down converter. 6830 DF units had a down converter to 45 KHz with an op amp on the output.
I bet the mixer takes 455 KHz and down converts it.

-----Original Message-----
From: oscar873@... [mailto:oscar873@...]
Sent: Thursday, November 10, 2005 4:04 PM
To: Racal6790GM@yahoogroups.com
Cc: Alan.Royce@...
Subject: Re: [Racal6790GM] 6790GM R2174A/URR New Variation

fc,
Here are the part numbers or discriptions.
Salisbury Eng. Inc. LEX 8-125 X3 M/M
ANZAC AM110 0.5-500mhz
ANZAC MD140 outputs marked LO RF IF
ANZAC #7 hand labeled LPF 60KHZ plus a 39db op amp
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Another big filter is mounted piggy back over A4 where the six filters are normaly installed. It is a 455khz 3.4khz wide which is tied to the AM110. The AM110 out goes to the RF in of the MD140. The LO of the MD140 goes to the rear panel and is labeled 3rd LO. The IF/MD140 goes to the 60khz LPF with the 39 db amp and on to the Salisbury filter?. The out goes to the #8 op amp and the out goes to the rear panel and is marked "out".
The input to the 455khz 3.4khz has a "T". one may go to the back panel and the other goes to the pcb's
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Al

--Original Message-----
From: Carcia, Francis A HS <francis.carcia@...>
To: Racal6790GM@yahoogroups.com
Sent: Tue, 8 Nov 2005 08:33:23 -0500
Subject: RE: [Racal6790GM] 6790GM R2174A/URR New Variation

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From: oscar873@... [mailto:oscar873@...]
Sent: Monday, November 07, 2005 3:18 PM

To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790GM R2174A/URR New Variation

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Long filter pigy backed on top board behind the front panel.
No data on this filter except manufacture. Military canon connector for buss input.
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Thanks
Al

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

[Non-text portions of this message have been removed]

Yahoo! Groups Links

339. RE: [Racal6790GM] 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-10 21:59:06 UTC
From: Carcia, Francis A HS
Topic: 328 Message: 339

I don't know what the A7 and A8 are no manual here at work. Sounds like all this stuff is extra for DF work and you can rip it out and configure it as a regular radio. fc

-----Original Message-----
From: Carcia, Francis A HS [mailto:francis.carcia@...]
Sent: Thursday, November 10, 2005 4:22 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] 6790GM R2174A/URR New Variation

Sounds simple to me below
AM110 amplifier
MD double balanced mixer
It looks like a down converter. 6830 DF units had a down converter to 45 KHz with an op amp on the output.
I bet the mixer takes 455 KHz and down converts it.

-----Original Message-----
From: oscar873@... [mailto:oscar873@...]
Sent: Thursday, November 10, 2005 4:04 PM
To: Racal6790GM@yahoogroups.com
Cc: Alan.Royce@...
Subject: Re: [Racal6790GM] 6790GM R2174A/URR New Variation

fc,
Here are the part numbers or discriptions.
Salisbury Eng. Inc. LEX 8-125 X3 M/M
ANZAC AM110 0.5-500mhz
ANZAC MD140 outputs marked LO RF IF
ANZAC #7 hand labeled LPF 60KHZ plus a 39db op amp
ANZAC #8 Hand labeled 39 db op amp

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The input to the 455khz 3.4khz has a "T". one may go to the back panel and the other goes to the pcb's
Looking at the bottom of the receiver, the A7 and A8 pcb are mostly disconected. Both ribbon cables and sma cables are disconected.
Al

--Original Message-----
From: Carcia, Francis A HS <francis.carcia@...>

To: Racal6790GM@yahoogroups.com
Sent: Tue, 8 Nov 2005 08:33:23 -0500
Subject: RE: [Racal6790GM] 6790GM R2174A/URR New Variation

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Sent: Monday, November 07, 2005 3:18 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790GM R2174A/URR New Variation

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Long filter pigy backed on top board behind the front panel.
No data on this filter except manufacture. Military canon connector for buss input.
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Thanks
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[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

340. Re: [Racal6790GM] 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-10 22:42:50 UTC
From: Dan Rae
Topic: 328 Message: 340

Carcia, Francis A HS wrote:

> I don't know what the A7 and A8 are no manual here at work.

It's the main synth board (A7) and the BFO synth and reference board
(A8), kind of needed to make it work!
dr

341. RE: [Racal6790GM] 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-11 13:25:32 UTC
From: Carcia, Francis A HS
Topic: 328 Message: 341

6830 had configurations that used external lo and 40 MHz for df applications. Some had relays to switch in the synthesizer during bite. I suspect you will need a prom change to make the radio play. Sounds like you need to contact Gary W. for a set of proms and missing hardware. The base band conversion could be used as a computer interface to play dsp games.

-----Original Message-----
From: Dan Rae [mailto:danrae@...]
Sent: Thursday, November 10, 2005 5:43 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] 6790GM R2174A/URR New Variation

Carcia, Francis A HS wrote:

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Yahoo! Groups Links

342. Re: [Racal6790GM] 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-11 15:03:20 UTC
From: oscar873@aol.com
Topic: 328 Message: 342

fc,
By the way, The Salisbury is an 8 pole filer at 12.5 khz and 3 khz wide.
Removing the two new sma cables, from the A2 input and A3 output, and connecting the old sma cables and the two ribbon cables, the radio kinda works. The bite stops at error 15.
Al
-----Original Message-----
From: Carcia, Francis A HS <francis.carcia@...>
To: Racal6790GM@yahoogroups.com
Sent: Thu, 10 Nov 2005 16:21:57 -0500
Subject: RE: [Racal6790GM] 6790GM R2174A/URR New Variation

Sounds simple to me below
AM110 amplifier
MD double balanced mixer
It looks like a down converter. 6830 DF units had a down converter to 45 KHz with an op amp on the output.
I bet the mixer takes 455 KHz and down converts it.

-----Original Message-----
From: oscar873@... [mailto:oscar873@...]
Sent: Thursday, November 10, 2005 4:04 PM
To: Racal6790GM@yahoogroups.com
Cc: Alan.Royce@...
Subject: Re: [Racal6790GM] 6790GM R2174A/URR New Variation

fc,
Here are the part numbers or discriptions.
Salisbury Eng. Inc. LEX 8-125 X3 M/M
ANZAC AM110 0.5-500mhz
ANZAC MD140 outputs marked LO RF IF
ANZAC #7 hand labeled LPF 60KHZ plus a 39db op amp
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From: Carcia, Francis A HS <francis.carcia@...>
To: Racal6790GM@yahoogroups.com
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What are the part numbers on the Anzac blocks maybe I can tell you what they do.

-----Original Message-----
From: oscar873@... [mailto:oscar873@...]
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Yahoo! Groups Links

Yahoo! Groups Links

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Yahoo! Groups Links

Yahoo! Groups Links

[Non-text portions of this message have been removed]

343. RE: [Racal6790GM] 6790GM R2174A/URR New Variation

Yahoo group: Racal6790GM
Date: 2005-11-11 15:14:05 UTC
From: Carcia, Francis A HS
Topic: 328 Message: 343

Interesting, the 6830 base band is 6.4 KHz. You might be able to keep the down converter functional and get the radio to play by rearranging cables and picking the IF off at the right point. The filter is a bit sharp for am but fine for ssb. fc

-----Original Message-----
From: oscar873@... [mailto:oscar873@...]
Sent: Friday, November 11, 2005 10:03 AM
To: Racal6790GM@yahoogroups.com
Cc: Alan.Royce@...
Subject: Re: [Racal6790GM] 6790GM R2174A/URR New Variation

fc,
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From: Carcia, Francis A HS <francis.carcia@...>
To: Racal6790GM@yahoogroups.com
Sent: Tue, 8 Nov 2005 08:33:23 -0500
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Long filter pigy backed on top board behind the front panel.
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Yahoo! Groups Links

Yahoo! Groups Links

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Yahoo! Groups Links

Yahoo! Groups Links

[Non-text portions of this message have been removed]

Yahoo! Groups Links

344. Re: [Racal6790GM] 6790 control software.

Yahoo group: Racal6790GM
Date: 2005-11-13 19:20:16 UTC
From: 19inchradio@lycos.nl
Topic: 326 Message: 344

Tnx Gary for quick support and I found lots of hardware data and references but no clear answer on my support to obtain software.
So the question is to the group:
Could you please give me some support in installing remote software for RA6790/GM or RA1792 use which I both have. I know the hardware connections but I am wandering if I need a max232 to control the A1 board. I have the standard multipin round plug type board on the 6790 which I like to try first.
Presently I am using the latest magnificent Ham radio de luxe with the IC718 and Dream with the DRM modified RX-321 from Global wireless (made by Ten TEC). I did found similar requests in the group but links are not working and I am missing a list of sources/links.
Your help is very much appreciated.

Regards from Amsterdam NL

----- Original Message -----
From: Gary Wingerd
To: Racal6790GM@yahoogroups.com
Sent: Monday, November 07, 2005 8:08 PM
Subject: Re: [Racal6790GM] 6790 control software.

These are the commands for the RA6790/GM RS232 Remote Interface, ADDRESS IS 37

ENTRY RESPONSE

$37S2 REMOTE Illuminates

S1 LOCAL, REMOTE GOES OFF

S2 REMOTE Illuminates

S3 STARTS BITE

S4 ENDS BITE

G GETS CURRENT RECEIVER SETTINGS

I .4 BW .4 KHz Selected

I 1 BW 1 KHz Selected

I 3 BW 3 KHz Selected

I 6 BW 6 KHz Selected

I 16 BW 16 KHz Selected

M1 AGC SHORT Selected

M2 AGC MEDIUM Selected

M3 AGC LONG Selected

M4 AGC MAN Selected

M5 AGC MAN/SHORT Selected

M6 AGC MAN/MEDIUM Selected

M7 AGC MAN/LONG Selected

B1.11 BFO +1.11

B-8.00 BFO -8.00

B8.00 BFO +8.00

F12.345678 FREQUENCY = 12.345678

F10.99 FREQUENCY = 10.99

D1 AM Selected

D2 FM Selected

D3 CW, BFO +8.00 Selected

D4 CW, BFO +0. Selected

D6 LSB Selected

D7 USB Selected

GARY E. WINGERD

GEW Electronic Repair Service

9107 JORDAN RD.

FAIRPLAY, MD. 21733

301-582-2424

gewingerd@...

gewingerd@...

----- Original Message -----
From: H@ns
To: Racal6790GM@yahoogroups.com
Sent: Sunday, November 06, 2005 11:21 AM
Subject: [Racal6790GM] 6790 control software.

Being new to the group is it possible to give me some hints on the
control software for the 1792 and 6790 RX? If possible free like HRD
which I am using on several TX an RX.
I found something in the foto section.

laptop screenshot
Posted: 16-May-2004 - Resolution: 400 x 300
Thumbnail: 1 KB | Screen Size: 13 KB | Full Size: 260 KB

Tnx and greetings from Amsterdam.

H@ns

YAHOO! GROUPS LINKS

a.. Visit your group "Racal6790GM" on the web.

b.. To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

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c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

345. Racal 6790 LCD'S

Yahoo group: Racal6790GM
Date: 2005-11-13 23:19:42 UTC
From: sparti3mystras
Topic: 345 Message: 345

Can somebody tell me where I can buy the 2 LCD displays for this receiver
and what is the approximate cost ??
cheers
Peter

346. Re: [Racal6790GM] Racal 6790 LCD'S

Yahoo group: Racal6790GM
Date: 2005-11-14 01:43:40 UTC
From: cgarry
Topic: 345 Message: 346

Peter, Murhys Surplus has the displays.
They are brand new.
Take a look at :
www.murphyjunk.bizland.com
regards
Garry Cratt.

email cgarry@...
web http://www.avcomm.com.au

347. Re: [Racal6790GM] Racal 6790 LCD'S

Yahoo group: Racal6790GM
Date: 2005-11-15 20:28:55 UTC
From: gewingerd
Topic: 345 Message: 347

Peter,

I have the Displays for the RACAL receiver, I purchase them and sell them
Brand New from the Manufacture.
I sell the displays for $115.00 a set plus shipping.

Thanks,
Gary E. Wingerd

----- Original Message -----
From: "sparti3mystras" <sparti3mystras@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Sunday, November 13, 2005 3:19 PM
Subject: [Racal6790GM] Racal 6790 LCD'S

> Can somebody tell me where I can buy the 2 LCD displays for this receiver
> and what is the approximate cost ??
> cheers
> Peter
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348. Fault code question

Yahoo group: Racal6790GM
Date: 2005-11-29 21:53:09 UTC
From: maxhdrm2
Topic: 348 Message: 348

OM,

I acquired a RA6790 over the weekend. The receiver was completely dead until I replace a defective cap on the microprocessor board. Upon power up I would get a failure code 15. In addition I would get a fault light on LSB mode. After the receiver warmed up it would perform perfectly passing the BITE repeatedly.

This morning I turn the receiver on and it immediately failed the BITE and showed a fault code that isn't in manual. It is P4.0 0 0 +.P6. I have tried to reinitialize the receiver several times with the last hour and it constantly fail with the same failure code.

Can you point me toward something I can dig into? Any help you can provide really would be appreciated.

Thanks!

Roderick W. Hart, WA3MEZ
rwhart@...

349. Re: [Racal6790GM] Fault code question

Yahoo group: Racal6790GM
Date: 2005-11-29 22:16:33 UTC
From: Dan Rae
Topic: 348 Message: 349

maxhdrm2 wrote:

>
> This morning I turn the receiver on and it immediately failed the BITE
> and showed a fault code that isn't in manual. It is P4.0 0 0 +.P6. I
> have tried to reinitialize the receiver several times with the last
> hour and it constantly fail with the same failure code.

This sounds like SRAM failure to me (one or both of the 5101s on the
A6A2 board)...
73
Dan
ac6ao / g3ncr

350. Re: Fault code question

Yahoo group: Racal6790GM
Date: 2005-12-01 15:57:35 UTC
From: mvlprasad
Topic: 348 Message: 350

Max:
Perhaps checking the battery may help. I recall seeing such error
code when my battery was low on juice and went away after replacing
with new batteries.
Good luck,
-Prasad

--- In Racal6790GM@yahoogroups.com, "maxhdrm2" <maxhdrm2@c...> wrote:
>
> OM,
>
> I acquired a RA6790 over the weekend. The receiver was completely
dead
> until I replace a defective cap on the microprocessor board. Upon
power
> up I would get a failure code 15. In addition I would get a fault
light
> on LSB mode. After the receiver warmed up it would perform
perfectly
> passing the BITE repeatedly.
>
> This morning I turn the receiver on and it immediately failed the
BITE
> and showed a fault code that isn't in manual. It is P4.0 0 0 +.P6.
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> have tried to reinitialize the receiver several times with the
last
> hour and it constantly fail with the same failure code.
>
> Can you point me toward something I can dig into? Any help you can
> provide really would be appreciated.
>
> Thanks!
>
> Roderick W. Hart, WA3MEZ
> rwhart@c...
>

351. Re: Fault code question

Yahoo group: Racal6790GM
Date: 2005-12-07 23:47:20 UTC
From: Roderick Hart
Topic: 348 Message: 351

I replaced both rams on the A6 board and it looks like the problem has
been cured. I still have a problem with the CAT interface but I am
about 95% sure it's a cap problem. I have several backordered from
Mouser so I am on hold until they arrive.

Is there software available for the receiver? It is such a nice
receiver I would love to get it interfaced.

Thanks for all of the help.

Rod Hart
wa3mez

--- In Racal6790GM@yahoogroups.com, "mvlprasad" <mvlprasad@y...> wrote:
>
> Max:
> Perhaps checking the battery may help. I recall seeing such error
> code when my battery was low on juice and went away after replacing
> with new batteries.
> Good luck,
> -Prasad
>
> --- In Racal6790GM@yahoogroups.com, "maxhdrm2" <maxhdrm2@c...> wrote:
> >
> > OM,
> >
> > I acquired a RA6790 over the weekend. The receiver was completely
> dead
> > until I replace a defective cap on the microprocessor board. Upon
> power
> > up I would get a failure code 15. In addition I would get a fault
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> > on LSB mode. After the receiver warmed up it would perform
> perfectly
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> >
> > This morning I turn the receiver on and it immediately failed the
> BITE
> > and showed a fault code that isn't in manual. It is P4.0 0 0 +.P6.
> I
> > have tried to reinitialize the receiver several times with the
> last
> > hour and it constantly fail with the same failure code.
> >
> > Can you point me toward something I can dig into? Any help you can
> > provide really would be appreciated.

> >
> > Thanks!
> >
> > Roderick W. Hart, WA3MEZ
> > rwhart@c...
> >
>

352. Re: [Racal6790GM] Re: Fault code question

Yahoo group: Racal6790GM
Date: 2005-12-08 18:29:28 UTC
From: mstangelo@comcast.net
Topic: 348 Message: 352

Rod,

Where did you get the RAM chips? i have a controller with the same P4 messages.

I've had tantalum cap failures on various boards, mostly with the cap on
the -15 voltage line. I usually replace all tantalum caps when repairing a board.
It's difficult removing all of the solder from the plated thru hole, so when I remove the
faulty capacitor (or any other component) I use a number 64 drill to remove the solder from
the hole without removing the plating. I use a pin vise to hold the drill and do it
manually; it works like a charm.

73,

Mike N2MS

-------------- Original message --------------
From: "Roderick Hart" <rwhart@...>

> I replaced both rams on the A6 board and it looks like the problem has
> been cured. I still have a problem with the CAT interface but I am
> about 95% sure it's a cap problem. I have several backordered from
> Mouser so I am on hold until they arrive.
>
> Is there software available for the receiver? It is such a nice
> receiver I would love to get it interfaced.
>
> Thanks for all of the help.
>
> Rod Hart
> wa3mez
>
> --- In Racal6790GM@yahoogroups.com, "mvlprasad" wrote:
> >
> > Max:
> > Perhaps checking the battery may help. I recall seeing such error
> > code when my battery was low on juice and went away after replacing
> > with new batteries.
> > Good luck,
> > -Prasad
> >
> > --- In Racal6790GM@yahoogroups.com, "maxhdrm2" wrote:
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> > > OM,
> > >
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> > dead

> > > until I replace a defective cap on the microprocessor board. Upon
> > power
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> > > on LSB mode. After the receiver warmed up it would perform
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> > > This morning I turn the receiver on and it immediately failed the
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> > last
> > > hour and it constantly fail with the same failure code.
> > >
> > > Can you point me toward something I can dig into? Any help you can
> > > provide really would be appreciated.
> > >
> > > Thanks!
> > >
> > > Roderick W. Hart, WA3MEZ
> > > rwhart@c...
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[Non-text portions of this message have been removed]

353. Re: [Racal6790GM] A6 Board Repair

Yahoo group: Racal6790GM
Date: 2005-12-09 15:54:08 UTC
From: rod
Topic: 353 Message: 353

mstangelo@...

Mike,

I purchased the two rams from Mouser. They were very inexpensive. I believe they were about $14 a piece. As for removing the capacitors, I use a low voltage soldering iron and solder wick. Using solder wick or a solder removal (pump type) are very save and have very little impact on the board.

The capacitor that I suspect is bad on the I/O board is a 6.8 uf cap setting on the -15 bus. I have 5 of the caps on order. I love this receiver so much I have began buying spare parts so I can keep it running. I just got a A7 board for almost nothing. If I can get the thing interfaced to the computer I'll be in Ham heaven.

Rod WA3MEZ

354. RE: [Racal6790GM] A6 Board Repair

Yahoo group: Racal6790GM
Date: 2005-12-09 20:13:31 UTC
From: Carcia, Francis A HS
Topic: 353 Message: 354

Another trick is heat up the lead and pull it out when the solder gets soft. Then reheat and push a common pin through the via and let cool. This opens the hole for the new lead. Sometimes wicking a ground pad damages the board with heat. Racal did not use thermal relief's so they sink a lot of heat.
gfz

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of rod
Sent: Friday, December 09, 2005 10:54 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] A6 Board Repair

mstangelo@...

Mike,

I purchased the two rams from Mouser. They were very inexpensive. I believe they were about $14 a piece. As for removing the capacitors, I use a low voltage soldering iron and solder wick. Using solder wick or a solder removal (pump type) are very save and have very little impact on the board.

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Rod WA3MEZ

Yahoo! Groups Links

355. Re: [Racal6790GM] A6 Board Repair

Yahoo group: Racal6790GM
Date: 2005-12-09 20:20:41 UTC
From: Dan Rae
Topic: 353 Message: 355

rod wrote:

>
>
> I purchased the two rams from Mouser. They were very inexpensive. I
> believe they were about $14 a piece.

They were also available from Jameco at around half that price, but I have not checked recently. From bitter past experience, I would recommend putting these in good quality sockets...
73
Dan
ac6ao / g3ncr

356. Re: A6 Board Repair

Yahoo group: Racal6790GM
Date: 2005-12-09 23:45:02 UTC
From: Roderick Hart
Topic: 353 Message: 356

Most of the chips on my A6 board are socketed. I suppose the previous
owner put them on the board.

Rod

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@v...> wrote:
>
> rod wrote:
>
> >
> >
> > I purchased the two rams from Mouser. They were very inexpensive.
I
> > believe they were about $14 a piece.
>
> They were also available from Jameco at around half that price, but
I
> have not checked recently. From bitter past experience, I would
> recommend putting these in good quality sockets...
> 73
> Dan
> ac6ao / g3ncr
>

357. Re: [Racal6790GM] A6 Board Repair

Yahoo group: Racal6790GM
Date: 2005-12-10 15:26:00 UTC
From: Michael St. Angelo
Topic: 353 Message: 357

Rod,

A good progran is Racal Virtual Software RA6790GM by W6GER. I don't know if
is still available.
You may want to look up his email address on QRZ and inquire.

You can get the interface mil type plug from Willaim Perry, telephone 502
893-8724.

73,

Mike N2MS

----- Original Message -----
From: "rod" <rwhart@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Friday, December 09, 2005 10:54 AM
Subject: Re: [Racal6790GM] A6 Board Repair

> mstangelo@...
>
> Mike,
>
> I purchased the two rams from Mouser. They were very inexpensive. I
> believe they were about $14 a piece. As for removing the capacitors, I use
> a low voltage soldering iron and solder wick. Using solder wick or a
> solder removal (pump type) are very save and have very little impact on
> the board.
>
> The capacitor that I suspect is bad on the I/O board is a 6.8 uf cap
> setting on the -15 bus. I have 5 of the caps on order. I love this
> receiver so much I have began buying spare parts so I can keep it
> running. I just got a A7 board for almost nothing. If I can get the
> thing interfaced to the computer I'll be in Ham heaven.
>
> Rod WA3MEZ
>
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> Yahoo! Groups Links

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358. what is 6790labview?

Yahoo group: Racal6790GM
Date: 2005-12-13 11:59:06 UTC
From: Roderick Hart
Topic: 358 Message: 358

Can someone tell me what the 6790labview file is? Is it the ROM code
for the receiver?

Rod Hart
WA3MEZ

359. Re: what is 6790labview?

Yahoo group: Racal6790GM
Date: 2005-12-15 00:26:56 UTC
From: Roderick Hart
Topic: 358 Message: 359

Opps.. After thinking about it, the thought hit me that this was a
Labview application. I'll locate my student version of Labview and see
if it runs later on tonight.

Rod Hart
WA3MEZ

--- In Racal6790GM@yahoogroups.com, "Roderick Hart" <rwhart@c...> wrote:
>
> Can someone tell me what the 6790labview file is? Is it the ROM code
> for the receiver?
>
> Rod Hart
> WA3MEZ
>

360. Board troubleshooting

Yahoo group: Racal6790GM
Date: 2005-12-17 04:45:50 UTC
From: maxhdrm2
Topic: 360 Message: 360

Comment from user:
I've wire-wrapped an ISA board that allows me to troubbleshoot the
receiver's boards using an IBM P.C. running Q-Basic.
n6idlron@comcast.net

Please elaborate for the group what you have accomplished.
Thanks Max

361. More information

Yahoo group: Racal6790GM
Date: 2005-12-18 06:38:51 UTC
From: klaatuveradanictogort
Topic: 361 Message: 361

Hi:
OK.
In July 1993 I was working in an Electronics Calibration Lab and going to the University majoring in electronics engineering. (My specialization now is RF and analog circuit design).

The owner of the lab, who specializes in new and used high-end test equipment, accidentally bided on the wrong lot. Among the goodies in this lot were eleven R-2174(P)/URR R-6790/GM receivers. I found out years later that he paid less than $17.00US for each receiver!

We checked them out and only one seemed to be fully operational, two were semi-functional, and the remaining eight were dead.

He wanted to sell the good one and scrap the others!!!!! I asked him to let me try to get most of them fully operational and within factory specifications On my own time. He said that if I could get just five to specification, I could have one!!!

I contacted the technical library at the U.S. Air Force Base that had sold the radios to him and discovered that they had several manuals relating to this equipment.

The best manual was the military repair and maintenance manual for the R2174(P)/URR!

TO31R2-2URR-251
TM 32-5820-030-14 & P

TECHNICAL MANUAL

COMBINED
OPERATIONS AND MAINTENANCE
INSTRUCTIONS
WITH
PARTS BREAKDOWN

RADIO RECEIVER
TYPE
R-2174(P)/URR

This is a really nice manual with X-Ray views of all of the printed circuit boards. My copy is about 99% complete.

I manage to convince him not to sell the good receiver as it would make a good reference for comparing it to the units under test. Because I had access to one of the worlds best calibration labs :=),

I felt that this was a doable project.
Reverse engineering the radio took awhile but was necessary because there was/is no information on test set-ups for troubleshooting this radio, (at least not any information that I could find).

Because the radio is controlled by a microprocessor, normal "analog" troubleshooting techniques must be supplemented by some form of digital control.

We had a bunch of PCL-720 PC-Labcard boards that were surplus. These parallel I/O - counter cards have a small prototyping area. To save time, I used one of these cards to wire-wrapped an interface that connected to the A9 Receiver control (Front Panel) 34 way cable that normally plugs into the A6A2 Microcomputer Circuit Card. In this way I gained complete control of the receiver.

I then wrote several programs in Q-BASIC that allowed me to "exercise" the receiver's boards.

Wire-wrapping an interface to an IBM PC's Parallel port should be doable, but I haven't tried it. If you attempt this be sure to use pull-up resistors on the cable I/O lines to help terminate the end of the cable and to be sure that you get +5volt rail to rail signal levels for the CMOS chips.

I was able to repair ten of the eleven radios. Below is a list of repairs from hand written notes.

All A6A2 microcontroller cards had leaking DataSentry Ni-Cd batteries.

8ea A9 front panel boards
Anti static protection is needed here

7ea A7 synthesizer boards
Watch the insulator on this board. Check for a short before turning on the radio after remounting this board.
The synthesizer's output frequency has a 1.2 MHz offset to the programmed frequency. The offset is caused by circuit delays in the first and second accumulator.
Watch hand capacitance around L5 while taking measurements.
DigiPhase synthesizers are very noisy by today's standards

4ea RF Filter Modules, someone dumped a lot of power into four of these radios!

3ea A4 Main IF/AF boards

3ea BFO Synthesizer boards
Check for spurious outputs from the reference oscillator

All of the power supply modules were good.

I hope this helps!

362. Re: [Racal6790GM] Board troubleshooting

Yahoo group: Racal6790GM
Date: 2005-12-18 05:35:09 UTC
From: Ron Ward
Topic: 360 Message: 362

Hi Max:

OK.

In July 1993 I was working in an Electronics Calibration Lab and going to the University majoring in electronics engineering. (My specialization now is RF and analog circuit design).

The owner of the lab, who specializes in new and used high-end test equipment, accidentally bided on the wrong lot. Among the goodies in this lot were eleven R-2174(P)/URR R-6790/GM receivers. I found out years later that he paid less than $17.00US for each receiver!

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PARTS BREAKDOWN

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Watch hand capacitance around L5 while taking measurements.

DigiPhase synthesizers are very noisy by today's standards

4ea RF Filter Modules, someone dumped a lot of power into four of these radios! Creamated coils & caps comes to mind

3ea A4 Main IF/AF boards

3ea BFO Synthesizer boards

Check for spurious outputs from the reference oscillator

All of the power supply modules were good.

I hope this helps.

If you have any questions please e-mail me at n6idlron@....

Thanks,

Ron

----- Original Message -----
From: maxhdrm2
To: Racal6790GM@yahoogroups.com
Sent: Friday, December 16, 2005 8:45 PM
Subject: [Racal6790GM] Board troubleshooting

Comment from user:
I've wire-wrapped an ISA board that allows me to troubbleshoot the
receiver's boards using an IBM P.C. running Q-Basic.
n6idlron@...

Please elaborate for the group what you have accomplished.
Thanks Max

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b.. To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

363. Re: [Racal6790GM] Board troubleshooting

Yahoo group: Racal6790GM
Date: 2005-12-18 16:36:49 UTC
From: maxhdrm2
Topic: 360 Message: 363

Ron, Thanks for sharing your experiences with the group! Our group knowledge will no doubt benefit by having your input.
Once upon a time I believe the US Air Force used a series of dedicated test fixtures (one for each module) for testing and adjustment. These fixtures are depicted in the adjustment manual. The most relevant part of the manual is in PDF format in our files section.
I hope your boss appreciated all of your hard work......It seems your talent is worth more than one $17 receiver!
Please feel free to add to our files section anything you think would benefit the group.
Thanks again Max
----- Original Message -----
From: Ron Ward
To: Racal6790GM@yahoogroups.com
Sent: Sunday, December 18, 2005 12:35 AM
Subject: Re: [Racal6790GM] Board troubleshooting

Hi Max:

OK.

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3ea A4 Main IF/AF boards

3ea BFO Synthesizer boards

Check for spurious outputs from the reference oscillator

All of the power supply modules were good.

I hope this helps.

If you have any questions please e-mail me at n6idlron@....

Thanks,

Ron

----- Original Message -----
From: maxhdrm2
To: Racal6790GM@yahoogroups.com
Sent: Friday, December 16, 2005 8:45 PM
Subject: [Racal6790GM] Board troubleshooting

Comment from user:
I've wire-wrapped an ISA board that allows me to troubbleshoot the
receiver's boards using an IBM P.C. running Q-Basic.
n6idlron@...

Please elaborate for the group what you have accomplished.
Thanks Max

SPONSORED LINKS Ham radio antenna Ham radio sales Ham radio repeaters
Ham radio outlet Ham radio store Used ham radio equipment

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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

364. RA6793A manual?

Yahoo group: Racal6790GM
Date: 2006-02-06 07:24:15 UTC
From: Marco
Topic: 364 Message: 364

Hi all,

I'm new on this group. I have a Racal 1792 and a RA6793A. I'm looking for the manuals for the 6793A, at least the operating one. The schematics are very similar, I know, but I would like to have them too. I checked around, but the -93A seems to be a lot less common than the -90GM. Any help?

Vy 73 - Marco IK1ODO

365. Re: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2006-02-21 15:25:13 UTC
From: oscar873@aol.com
Topic: 234 Message: 365

RACAL GROUPS,
Can anyone give some information on the last 500 A2 boards in the 6790 receiver?
Are they available?
What inprovements do they acheive?
Al

-----Original Message-----
From: maxhdrm2 <maxhdrm2@...>
To: Racal6790GM@yahoogroups.com
Sent: Fri, 06 May 2005 21:34:41 -0000
Subject: [Racal6790GM] Technical Question for Gary

Gary,
Last year I had an A-7 failure and subsequently replaced the offending
A-7 board. Ever since I have noticed that when I rotate the tuning knob
in the USB and LSB modes the DS-3 L.E.D. on the A-9 board lights up for
a second and I get a simutanious chirp in the speaker. Bite passes.
I read the circuit descriptions for the A-8 and A-7 but I'm not sure
what would light DS-3. I'm thinking it's a PLL lockup that is a little
slow? The TXCO is perfectly aligned as is the the rest of the
Oscillators. Have you ever seen this problem before?
This is a fairly early 6790 with the older firmware and no ECNs.
Thanks, Max

Yahoo! Groups Links

[Non-text portions of this message have been removed]

366. Re: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2006-02-21 16:57:35 UTC
From: gewingerd@netzero.net
Topic: 234 Message: 366

The last 500 A2 cards built by RACAL had a SD5000 FET IC Installed and holes in the mixer box cover to align it to the filter that is installed on the A2 card.
On the A7 card, I would need the card to look at.
Thanks,
Gary

[Non-text portions of this message have been removed]

367. Re: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2006-02-21 17:45:50 UTC
From: Dan Rae
Topic: 234 Message: 367

oscar873@... wrote:

> RACAL GROUPS,
> Can anyone give some information on the last 500 A2 boards in the 6790
> receiver?
> Are they available?

I'm sure Gary would be delighted to sell you one.

> What improvements do they achieve?

The advantage of the SD5000 was first, that it was available, even from Radio Shack in the mid 90s (those were the days!), and secondly that the necessary close matching of the four FETs was done for you by the manufacturer... I have always used the SD5000 to replace the discrete FETs in Racal receivers since they became easily available. Performance is very similar to that with a matched quad of discrete FETs. I have an RA1772 here with the SD5000 fitted after a near lightning strike killed the original BSV81s and the measured performance is pretty much the same as before, with maybe a dB or two improvement in the IIP3 numbers, but that's hard to measure that exactly anyway. Also I have fitted the SD5000 to 6790/GM A2 cards. But don't ask me where one can get them nowadays!

The filter matching trimmers were there in the older mixers but Racal did not provide holes in the cover to access them once the box was closed.

Do not confuse the later A2 board with the four holes in the mixer box with the VLF version, which has a much bigger mixer box and a lot of additional circuitry in the LO chain. I have RA6790/GMs here with all three, and it's hard to tell the difference at HF of course, at VLF the LF version really is effective down to around 15 kHz, I've no idea what they specified it to though.

73
Dan
ac6ao / g3ncr

368. Re: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2006-02-21 20:32:05 UTC
From: oscar873@aol.com
Topic: 234 Message: 368

DAN,
Have not seen u at TRW in awhile.
I will have to check to see if I have any A2 cards fitted with a SD5000.
Looking for a ops serv manual for the following, Plessey PR1550 and a service manual for a Eddystone 1650/9.
Al Royce

-----Original Message-----
From: Dan Rae <danrae@...>
To: Racal6790GM@yahoogroups.com
Sent: Tue, 21 Feb 2006 09:45:50 -0800
Subject: Re: [Racal6790GM] Technical Question for Gary

oscar873@... wrote:

> RACAL GROUPS,
> Can anyone give some information on the last 500 A2 boards in the 6790
> receiver?
> Are they available?

I'm sure Gary would be delighted to sell you one.

> What improvements do they achieve?

The advantage of the SD5000 was first, that it was available, even from Radio Shack in the mid 90s (those were the days!), and secondly that the necessary close matching of the four FETs was done for you by the manufacturer... I have always used the SD5000 to replace the discrete FETs in Racal receivers since they became easily available. Performance is very similar to that with a matched quad of discrete FETs. I have an RA1772 here with the SD5000 fitted after a near lightning strike killed the original BSV81s and the measured performance is pretty much the same as before, with maybe a dB or two improvement in the IIP3 numbers, but that's hard to measure that exactly anyway. Also I have fitted the SD5000 to 6790/GM A2 cards. But don't ask me where one can get them nowadays!

The filter matching trimmers were there in the older mixers but Racal did not provide holes in the cover to access them once the box was closed.

Do not confuse the later A2 board with the four holes in the mixer box with the VLF version, which has a much bigger mixer box and a lot of additional circuitry in the LO chain. I have RA6790/GMs here with all three, and it's hard to tell the difference at HF of course, at VLF the LF version really is effective down to around 15 kHz, I've no idea what they specified it to though.

73
Dan
ac6ao / g3ncr

Yahoo! Groups Links

[Non-text portions of this message have been removed]

369. RE: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2006-02-21 20:43:31 UTC
From: Carcia, Francis A HS
Topic: 234 Message: 369

Wow, TRW is still going on. I hit it once a month back in '81 and '82.
I hauled a number of boxes of loot when I moved back East.

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
Behalf Of oscar873@...
Sent: Tuesday, February 21, 2006 3:32 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Technical Question for Gary

DAN,
Have not seen u at TRW in awhile.
I will have to check to see if I have any A2 cards fitted with a SD5000.
Looking for a ops serv manual for the following, Plessey PR1550 and a
service manual for a Eddystone 1650/9.
Al Royce

-----Original Message-----
From: Dan Rae <danrae@...>
To: Racal6790GM@yahoogroups.com
Sent: Tue, 21 Feb 2006 09:45:50 -0800
Subject: Re: [Racal6790GM] Technical Question for Gary

oscar873@... wrote:

> RACAL GROUPS,
> Can anyone give some information on the last 500 A2 boards in the 6790
> receiver?
> Are they available?

I'm sure Gary would be delighted to sell you one.

> What improvements do they achieve?

The advantage of the SD5000 was first, that it was available, even from
Radio Shack in the mid 90s (those were the days!), and secondly that the
necessary close matching of the four FETs was done for you by the
manufacturer... I have always used the SD5000 to replace the discrete
FETs in Racal receivers since they became easily available.
Performance is very similar to that with a matched quad of discrete
FETs. I have an RA1772 here with the SD5000 fitted after a near
lightning strike killed the original BSV81s and the measured performance
is pretty much the same as before, with maybe a dB or two improvement in
the IIP3 numbers, but that's hard to measure that exactly anyway. Also
I have fitted the SD5000 to 6790/GM A2 cards. But don't ask me where
one can get them nowadays!

The filter matching trimmers were there in the older mixers but Racal did not provide holes in the cover to access them once the box was closed.

Do not confuse the later A2 board with the four holes in the mixer box with the VLF version, which has a much bigger mixer box and a lot of additional circuitry in the LO chain. I have RA6790/GMs here with all three, and it's hard to tell the difference at HF of course, at VLF the LF version really is effective down to around 15 kHz, I've no idea what they specified it to though.

73
Dan
ac6ao / g3ncr

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[Non-text portions of this message have been removed]

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370. Re: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2006-02-21 21:06:07 UTC
From: gandalfg8@aol.com
Topic: 234 Message: 370

In a message dated 21/02/2006 20:33:35 GMT Standard Time, oscar873@...
writes:

DAN,
Have not seen u at TRW in awhile.
I will have to check to see if I have any A2 cards fitted with a SD5000.
Looking for a ops serv manual for the following, Plessey PR1550 and a
service manual for a Eddystone 1650/9.
Al Royce

Hi Al

And Hi Dan, how's things? and the display updates?....
I'm still on the verge of moving, as always, but not there yet !!

Al, I have the manual for the 1650/9 but only in paper form and it's now
packed away, as is my receiver, and both unlikely to surface for several months.
I do also have the more general mamual for earlier versions in pdf format,
about 8 MB and could email that one to you.
The earlier one is quite a bit bigger, at around 176 pages, but obviously
doesn't cover refinements such as BITE and the front end oscillator used in
place of the antenna input when in BITE mode.
However there are lots of similarities so if you haven't already got it you
might find it useful.

regards

Nigel
G8PZR

[Non-text portions of this message have been removed]

371. Re: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2006-02-21 21:13:04 UTC
From: Dan Rae
Topic: 234 Message: 371

Carcia, Francis A HS wrote:

> Wow, TRW is still going on. I hit it once a month back in '81 and '82.
> I hauled a number of boxes of loot when I moved back East.

Yes Frank, it is still there, a pale shadow of it's former self, so to speak, since the dealers have all discovered eBay, but every time I go there's always one or two goodies to bring home, even if it's just a bag of SMAs for a couple of bucks or 1000 6.8 ?F 35V tantalums for $1...
It's the one dealer who buys scrap from Cubic that keeps me going there!

dr

372. RE: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2006-02-21 21:31:25 UTC
From: Carcia, Francis A HS
Topic: 234 Message: 372

I have so much junk that I am happy to come home with 1 bag. We had one last Saturday and almost made it out the door until I spotted the guy with bags of transistors. Scored some good ones including the J310. I'm playing with replacing the 2n5089 emitter follower after the filters with U310s. Harris did this in the 590. It improves the mds a bit. I have one 6830 with a MDS of -135 dBM. I do a couple other tricks to pull this off. I also set one up as a gain stage U310. Still trying to decide if there needs to be gain or less noise. The 2N5089 has a N.F. of about 16 dB at 5 Kohm input Z. The filter section with the resistive divider is very lossy. I will post my info after I trust my numbers.
I wonder who the cubic guy is. You might mention to him you know a guy with a couple hundred modules mostly VHF/UHF stuff 2871-XXXX fc

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Dan Rae
Sent: Tuesday, February 21, 2006 4:13 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Technical Question for Gary

Carcia, Francis A HS wrote:

> Wow, TRW is still going on. I hit it once a month back in '81 and '82.
> I hauled a number of boxes of loot when I moved back East.

Yes Frank, it is still there, a pale shadow of it's former self, so to speak, since the dealers have all discovered eBay, but every time I go there's always one or two goodies to bring home, even if it's just a bag of SMAs for a couple of bucks or 1000 6.8 µF 35V tantalums for $1...
It's the one dealer who buys scrap from Cubic that keeps me going there!

dr

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373. Re: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2006-02-22 15:11:32 UTC
From: oscar873@aol.com
Topic: 234 Message: 373

fc,
Who is the guy with a couple of hundred Cubic modules and what do they go to?
Al

-----Original Message-----
From: Carcia, Francis A HS <francis.carcia@...>
To: Racal6790GM@yahoogroups.com
Sent: Tue, 21 Feb 2006 16:31:25 -0500
Subject: RE: [Racal6790GM] Technical Question for Gary

I have so much junk that I am happy to come home with 1 bag. We had one last Saturday and almost made it out the door until I spotted the guy with bags of transistors. Scored some good ones including the J310. I'm playing with replacing the 2n5089 emitter follower after the filters with U310s. Harris did this in the 590. It improves the mds a bit. I have one 6830 with a MDS of -135 dBM. I do a couple other tricks to pull this off. I also set one up as a gain stage U310. Still trying to decide if there needs to be gain or less noise. The 2N5089 has a N.F. of about 16 dB at 5 Kohm input Z. The filter section with the resistive divider is very lossy. I will post my info after I trust my numbers.
I wonder who the cubic guy is. You might mention to him you know a guy with a couple hundred modules mostly VHF/UHF stuff 2871-XXXX fc

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Dan Rae
Sent: Tuesday, February 21, 2006 4:13 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Technical Question for Gary

Carcia, Francis A HS wrote:

> Wow, TRW is still going on. I hit it once a month back in '81 and '82.
> I hauled a number of boxes of loot when I moved back East.

Yes Frank, it is still there, a pale shadow of it's former self, so to speak, since the dealers have all discovered eBay, but every time I go there's always one or two goodies to bring home, even if it's just a bag of SMAs for a couple of bucks or 1000 6.8 µF 35V tantalums for $1...
It's the one dealer who buys scrap from Cubic that keeps me going there!

dr

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[Non-text portions of this message have been removed]

374. RE: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2006-02-22 15:33:49 UTC
From: Carcia, Francis A HS
Topic: 234 Message: 374

I have a couple hundred modules. Mostly for 35XX VHF/UHF receivers.
Some older stuff. Some odd stuff. I have a bunch for the R3050.

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
Behalf Of oscar873@...
Sent: Wednesday, February 22, 2006 10:12 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Technical Question for Gary

fc,
Who is the guy with a couple of hundred Cubic modules and what do they go
to?
Al

-----Original Message-----
From: Carcia, Francis A HS <francis.carcia@...>
To: Racal6790GM@yahoogroups.com
Sent: Tue, 21 Feb 2006 16:31:25 -0500
Subject: RE: [Racal6790GM] Technical Question for Gary

I have so much junk that I am happy to come home with 1 bag. We had one last
Saturday and almost made it out the door until I spotted the guy with bags
of transistors. Scored some good ones including the J310. I'm playing with
replacing the 2n5089 emitter follower after the filters with U310s. Harris
did this in the 590. It improves the mds a bit. I have one 6830 with a MDS
of -135 dBM. I do a couple other tricks to pull this off. I also set one up
as a gain stage U310. Still trying to decide if there needs to be gain or
less noise. The 2N5089 has a N.F. of about 16 dB at 5 Kohm input Z. The
filter section with the resistive divider is very lossy. I will post my info
after I trust my numbers.
I wonder who the cubic guy is. You might mention to him you know a guy with
a couple hundred modules mostly VHF/UHF stuff 2871-XXXX fc

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
Behalf Of Dan Rae
Sent: Tuesday, February 21, 2006 4:13 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Technical Question for Gary

Carcia, Francis A HS wrote:

> Wow, TRW is still going on. I hit it once a month back in '81 and '82.
> I hauled a number of boxes of loot when I moved back East.

Yes Frank, it is still there, a pale shadow of it's former self, so to speak, since the dealers have all discovered eBay, but every time I go there's always one or two goodies to bring home, even if it's just a bag of SMAs for a couple of bucks or 1000 6.8 µF 35V tantalums for $1...
It's the one dealer who buys scrap from Cubic that keeps me going there!

dr

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

375. New member - help please!

Yahoo group: Racal6790GM
Date: 2006-03-04 17:08:40 UTC
From: tony dinkel
Topic: 375 Message: 375

I am a new member but old user of 6790s. I purchased mine around 10 years or so ago and it has performed well at a 50kW transmitter site with no problems...until I suspect we took a nearby lightning strike about a year ago.

The sensitivity went to heck, to the tune of 5000 microvolts for a barely detectable signal at 100% modulation.

Now I am in a position where I would really like to get it working again so I am in the first stages of troubleshooting. The BITE test does not return an error code but it appears the first mixer is not mixing.

I have gone back in the archives of this list and find some discussions in regard to fets and a replacement fet array. I am not beyond opening up U1 either with a soldering iron or can opener, but I would like to do some additional fault isolation before I tear into it. Any assistance with levels/voltages or other hints would be much appreciated.

tony dinkel
wb6mie
Senior Engineer KFI AM 640 kHz

376. Re: [Racal6790GM] New member - help please!

Yahoo group: Racal6790GM
Date: 2006-03-04 18:52:36 UTC
From: Dan Rae
Topic: 375 Message: 376

> in regard to fets and a replacement fet array. I am not
> beyond opening up U1 either with a soldering iron or can opener, but I
> would like to do some additional fault isolation before I tear into
> it. Any assistance with levels/voltages or other hints would be much
> appreciated.

Tony,
At the output of the low pass filter on the A2 board (E3) you should see a signal more or less the same as on the input. At the output of the roofing filter (E8) you should see a signal -9dB relative to the input, and at the output of the board after the first IF amp (J3) the level should be +5 dB, again relative to the input. That should enable you to track down whether any or all of the stages on that board have died.
GL
Dan
ac6ao /g3ncr

377. Re: New member - help please!

Yahoo group: Racal6790GM
Date: 2006-03-04 19:38:47 UTC
From: tony dinkel
Topic: 375 Message: 377

Appreciate that. I will get on that Monday.

Thanks,

td

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> > in regard to fets and a replacement fet array. I am not
> > beyond opening up U1 either with a soldering iron or can opener, but I
> > would like to do some additional fault isolation before I tear into
> > it. Any assistance with levels/voltages or other hints would be much
> > appreciated.
>
>
> Tony,
> At the output of the low pass filter on the A2 board (E3) you should see
> a signal more or less the same as on the input. At the output of the
> roofing filter (E8) you should see a signal -9dB relative to the input,
> and at the output of the board after the first IF amp (J3) the level
> should be +5 dB, again relative to the input. That should enable you to
> track down whether any or all of the stages on that board have died.
> GL
> Dan
> ac6ao /g3ncr
>

378. Re: [Racal6790GM] New member - help please!

Yahoo group: Racal6790GM
Date: 2006-03-05 04:43:20 UTC
From: gewingerd@netzero.net
Topic: 375 Message: 378

Tony,
The output of the board is 40.455 MHz at +2 to -40 DBm with the AGC at MAN and Max on the IF Gain pot on the front panel (with an input at 0 DBm).
The replacement for the FET's is a SD5000I fet IC.
Good luck.
Thanks,
Gary

[Non-text portions of this message have been removed]

379. Re: [Racal6790GM] New member - help please!

Yahoo group: Racal6790GM
Date: 2006-03-05 17:05:35 UTC
From: tony dinkel
Topic: 375 Message: 379

Thank you Gary. I appreciate the answers in dBm. Some folks like to talk in millivolts and that forces me to do the conversions.

Another user has given me the stage gains for the A2 board but I have a hunch my problems are all in the little soldered shut tin can. I will get the generator and 492 cranked up on monday and share my bad news.

I am curious, is anyone doing component level repairs on these things? Is there any modification that is necessary to put in the SD5000? I have seen the picture of the inside of the U1 module and it seems there is not much real estate to spare in there.

I have really had a good time with this receiver. I was really bummed when it died. It constantly worked at my transmitter site when other peoples' ham class receivers would fold up and just spew talk radio fuzz. And I am not just talking WWV on 10 mHz. I could consistantly pull in far away aircraft on the ATC and AF Global freqs. All
while sitting less than 1000 feet from a 755 foot stick transmitting 50,000 watts on 640kHz.

I appreciate this resource and all of the friendly advice I have already received and probably will be getting in the future.

Thanks and looking forward to having my monster receiver back soon,

td
wb6mie

>Tony,
> The output of the board is 40.455 MHz at +2 to -40 DBm with the AGC at
>MAN and Max on the IF Gain pot on the front panel (with an input at 0
>DBm).
>The replacement for the FET's is a SD5000I fet IC.
>Good luck.
>Thanks,
>Gary
>

380. LCD displays for 6790

Yahoo group: Racal6790GM
Date: 2006-03-07 23:08:54 UTC
From: sparti3mystras
Topic: 380 Message: 380

Hello all,
Can anybody tell me where I can buy both LCD displays for our beloved
6790??.
Thanks

381. RE: [Racal6790GM] LCD displays for 6790

Yahoo group: Racal6790GM
Date: 2006-03-08 14:03:10 UTC
From: Carcia, Francis A HS
Topic: 380 Message: 381

www.gewingerd@...

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of sparti3mystras
Sent: Tuesday, March 07, 2006 6:09 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] LCD displays for 6790

Hello all,
Can anybody tell me where I can buy both LCD displays for our beloved 6790??.
Thanks

Yahoo! Groups Links

382. Re: [Racal6790GM] LCD displays for 6790

Yahoo group: Racal6790GM
Date: 2006-03-08 17:13:42 UTC
From: gewingerd@netzero.net
Topic: 380 Message: 382

I have New Displays for the RA6790/GM receivers, they are $60.00 each for the Frequency Display and $60.00 each for the Mode Display plus shipping of $10.00 in the USA, I will have to compute the shipping for all other locations. The displays come with directions on installation.
I accept Money Orders to:
Gary E. Wingerd
9107 Jordan Rd
Fairplay, MD 21733
Or PayPal to:
gewingerd@...

[Non-text portions of this message have been removed]

383. Re: [Racal6790GM] LCD displays for 6790

Yahoo group: Racal6790GM
Date: 2006-03-09 21:21:17 UTC
From: John Bowers
Topic: 380 Message: 383

Gary
I would like to order one each of the two displays. My receiver
displays are getting real fuzzy. Let me know and I will pay through PayPal.

My mailing address is:

Moultrie Technologies
John Bowers, President
RR#1 Box#13
Lovington, IL
61937-9708

Glad to find a source for these displays.
Regards
john Bowers
K9UTK

gewingerd@... wrote:

> I have New Displays for the RA6790/GM receivers, they are $60.00 each
> for the Frequency Display and $60.00 each for the Mode Display plus
> shipping of $10.00 in the USA, I will have to compute the shipping for
> all other locations. The displays come with directions on installation.
> I accept Money Orders to:
> Gary E. Wingerd
> 9107 Jordan Rd
> Fairplay, MD 21733
> Or PayPal to:
> gewingerd@...
>
>
> [Non-text portions of this message have been removed]
>
>
>
> SPONSORED LINKS
> Ham radio antenna
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio+antenna&w1=Ham+radio+antenna&w2=Ham+radio+sales&w3=Ham+radio+repeaters&w4=Ham+radio+outlet&w5=Ham+radio+store&c=5&s=112&.sig=MVvzPjhgkollOfX1_QxjSQ>
> Ham radio sales
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio+sales&w1=Ham+radio+antenna&w2=Ham+radio+sales&w3=Ham+radio+repeaters&w4=Ham+radio+outlet&w5=Ham+radio+store&c=5&s=112&.sig=IHYnWP9kPNuP4RoSqeVR9w>
> Ham radio repeaters
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio+repeaters&w1=Ham+radio+antenna&w2=Ham+rad

io+sales&w3=Ham+radio+repeaters&w4=Ham+radio+outlet&w5=Ham+radio+store&c=5&s=112&.sig=RBed
mGP4gLEyh82DlmHuYw>
>
> Ham radio outlet
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio+outlet&w1=Ham+radio+antenna&w2=Ham+radio+
sales&w3=Ham+radio+repeaters&w4=Ham+radio+outlet&w5=Ham+radio+store&c=5&s=112&.sig=eGahOrP
kC91stdqhu1L1rg>
> Ham radio store
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio+store&w1=Ham+radio+antenna&w2=Ham+radio+s
ales&w3=Ham+radio+repeaters&w4=Ham+radio+outlet&w5=Ham+radio+store&c=5&s=112&.sig=eYQIU5d4
SHb4sR0rcP4aEw>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "Racal6790GM
> <http://groups.yahoo.com/group/Racal6790GM>" on the web.
>
> * To unsubscribe from this group, send an email to:
> Racal6790GM-unsubscribe@yahoogroups.com
> <mailto:Racal6790GM-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>

[Non-text portions of this message have been removed]

384. Re: [Racal6790GM] LCD displays for 6790

Yahoo group: Racal6790GM
Date: 2006-03-10 19:01:35 UTC
From: gewingerd@netzero.net
Topic: 380 Message: 384

John,

The total with shipping is $130.00, My PayPal is gewingerd@...

Thanks,
Gary

[Non-text portions of this message have been removed]

385. Troubleshooting update

Yahoo group: Racal6790GM
Date: 2006-03-10 23:34:40 UTC
From: tony dinkel
Topic: 380 Message: 385

Thanks for everyone's input on my A2 board problem. I generated 1.0 mHz and put it into P-1. I measured almost no loss to E-3 at an input level of about -40. I then broke the link between E-8 and E-9. No 40.455 signal detected at any level.

Then I looked at the LO at 41.455mHz.

TP-1 = -12
TP-2 = -16
TP-3 = -3

On the collectors of Q3, Q4 = -6

Comments please?

td

386. Re: [Racal6790GM] Troubleshooting update

Yahoo group: Racal6790GM
Date: 2006-03-11 15:35:19 UTC
From: Dan Rae
Topic: 380 Message: 386

tony dinkel wrote:

> Thanks for everyone's input on my A2 board problem. I generated 1.0
> mHz and
> put it into P-1. I measured almost no loss to E-3 at an input level of
> about -40. I then broke the link between E-8 and E-9. No 40.455 signal
> detected at any level.
>
> Then I looked at the LO at 41.455mHz.
>
> TP-1 = -12
> TP-2 = -16
> TP-3 = -3
>
> On the collectors of Q3, Q4 = -6
>
> Comments please?

Tony. It's not right...
If your numbers are levels in dBm, then the LO output from the A7 board (TP1) should be of the order of +14 dBm +/- 3 dB.
The RF voltage at the collectors of Q3 / Q4 should be between 4 and 8 Volts rms from what I remember, certainly not -6 of anything!

I'd be looking at the output of the A7 board first or possibly the cable between A2 and A7 and work back from there...
Good luck,
Dan
ac6ao / g3ncr

387. 6790 Frequency Standard - help needed

Yahoo group: Racal6790GM
Date: 2006-03-17 15:17:15 UTC
From: darcy_nick
Topic: 387 Message: 387

Hi all,
I've just purchased a crystal oscillator which I'm told has come from a 6790/GM, only problem is that I have no data on the unit. All that I have is the label which says that it was made by EG&G Cinox has P/N 08289 model H-186 (I think that it's H, label is not very well printed) and is dated 08-85.
What I really need to know is the pinout, from my researches I'm fairly sure it needs a 12V supply, so that I can test it on the bench. The two lower pins are connected to the chassis so I presume that they are 0V but the two top pins have no markings. So which is power & which is the output?
Please don't hesitate to contact me direct if you feel this is not a fit subject for the group.
Thanks very much.
Nick D'Arcy

388. Re: 6790 Frequency Standard - help needed

Yahoo group: Racal6790GM
Date: 2006-03-19 17:22:01 UTC
From: ac6ao
Topic: 387 Message: 388

--- In Racal6790GM@yahoogroups.com, "darcy_nick" <nick.darcy@...> wrote:

> What I really need to know is the pinout, from my researches I'm fairly
> sure it needs a 12V supply, so that I can test it on the bench. The two
> lower pins are connected to the chassis so I presume that they are 0V
> but the two top pins have no markings. So which is power & which is the
> output?

With the two pins you're talking about at the top, looking at the
bottom, the one at the left, slightly further in from the edge, is the
power (+ve Volts)and the other the output.

In the 6790/GM the power is supplied from a separate current limited
and regulated remote shut down supply on the A8 board, which usually
seems to give a bit less than 12 Volts out, but 12 volts should be fine.

One big caveat however. There were a whole bunch of these ovens that
produced a spurious output near to the true output. This has been
well documented elsewhere, by Dallas Lankford. Google is your friend.
If yours has come from a receiver, that may well be the reason it was
removed in the first place.
73
Dan
ac6ao / g3ncr

389. Re: 6790 Frequency Standard - help needed

Yahoo group: Racal6790GM
Date: 2006-03-19 18:47:27 UTC
From: darcy_nick
Topic: 387 Message: 389

--- In Racal6790GM@yahoogroups.com, "ac6ao" <danrae@...> wrote:
>
> --- In Racal6790GM@yahoogroups.com, "darcy_nick" <nick.darcy@>
wrote:
>
> > What I really need to know is the pinout, from my researches I'm
fairly
> > sure it needs a 12V supply, so that I can test it on the bench.
The two
> > lower pins are connected to the chassis so I presume that they
are 0V
> > but the two top pins have no markings. So which is power & which
is the
> > output?
>
> With the two pins you're talking about at the top, looking at the
> bottom, the one at the left, slightly further in from the edge, is
the
> power (+ve Volts)and the other the output.
>
> In the 6790/GM the power is supplied from a separate current limited
> and regulated remote shut down supply on the A8 board, which usually
> seems to give a bit less than 12 Volts out, but 12 volts should be
fine.
>
> One big caveat however. There were a whole bunch of these ovens
that
> produced a spurious output near to the true output. This has been
> well documented elsewhere, by Dallas Lankford. Google is your
friend.
> If yours has come from a receiver, that may well be the reason it
was
> removed in the first place.
> 73
> Dan
> ac6ao / g3ncr
>

Thanks very much for the info, Dan.
I hope that the spur won't worry my application, I'm using it to
upgrade my old Racal 9904M counter. I don't think that it will, as I
remember, all the 99 series counters had a fairly heavily filtered
frequency standard input - they needed it as the output from the
standards we made (9420 etc.) was not exactly pure as the driven snow!
Best regards,

Nick

390. Hex Files

Yahoo group: Racal6790GM
Date: 2006-03-21 09:01:22 UTC
From: Nico
Topic: 390 Message: 390

Hi all

I am looking for Hex files for my RA1792 with backlight the
firmware with 1 Hz tuning rate eventual with 200 channel
scan possibility in hex or bin format.

Regarding the 2 prom board type U8 U9 with TC5517AP at U11 and U16 LM393

Hope someone wil send these files to my mailbox

reading and burning is not the problem here....

Thanks

Nico

391. Long-shot ...6790 . lsb/usb 2.4 Khz filters ... looking for .

Yahoo group: Racal6790GM
Date: 2006-03-21 16:01:55 UTC
From: Graham
Topic: 391 Message: 391

Long-shot ... lsb/usb 2.4 Khz filters

looking for usb&lsb 2.4 khz filters , also a ISB board ..

any one have or know where to get ?

Rgds

Graham .

392. Re: Long-shot ...6790 . lsb/usb 2.4 Khz filters ... looking for .

Yahoo group: Racal6790GM
Date: 2006-03-24 20:49:17 UTC
From: zydiak
Topic: 391 Message: 392

Graham

I have been told that the A5 ISB board for the 6790 exists only in a relm far beyond that of
hen's teeth. However, if you are looking to have custom filters made for your Racal, contact Robert Sherwood at Sherwood Engineering. He has a good stock of 455 kHz Colins filters on hand, and is very knowlageable in this area. (He just made me three new filters for my 6790, an asynchronous LSB filter, an asynchronous USB filter, and a 250 hz filter.)

Mike

393. Re: Long-shot ...6790 . lsb/usb 2.4 Khz filters ... looking for .

Yahoo group: Racal6790GM
Date: 2006-03-25 11:29:41 UTC
From: Graham
Topic: 391 Message: 393

--- In Racal6790GM@yahoogroups.com, "zydiak" <zydiak@...> wrote:
>
> Graham
>
> I have been told that the A5 ISB board for the 6790 exists only in a relm far beyond that of
> hen's teeth. However, if you are looking to have custom filters made for your Racal,
> contact Robert Sherwood at Sherwood Engineering. He has a good stock of 455 kHz Colins
> filters on hand, and is very knowlageable in this area. (He just made me three new filters
> for my 6790, an asynchronous LSB filter, an asynchronous USB filter, and a 250 hz filter.)
>
> Mike
>

Thanks for that Mike ..

Can you e-mail me details of you filters bw ? $ contact info ?

i did see some isb boards a while ago at a local 'surplus' dealer .. but that was before i had a working rx ... so dident pick one up .. will do next time !

Rgds

G .

394. Re: Long-shot ...6790 . lsb/usb 2.4 Khz filters ... looking for .

Yahoo group: Racal6790GM
Date: 2006-03-25 11:51:02 UTC
From: Graham
Topic: 391 Message: 394

--- In Racal6790GM@yahoogroups.com, "zydiak" <zydiak@...> wrote:
>
> Graham
>
> I have been told that the A5 ISB board for the 6790 exists only in a relm far beyond that of
> hen's teeth. However, if you are looking to have custom filters made for your Racal,
> contact Robert Sherwood at Sherwood Engineering. He has a good stock of 455 kHz Colins
> filters on hand, and is very knowlageable in this area. (He just made me three new filters
> for my 6790, an asynchronous LSB filter, an asynchronous USB filter, and a 250 hz filter.)
>
> Mike
>

Mile just found the mfg on web ... spoke too soon ! .. whats your impression of the filters .. ive a set of 3 Khz racal ones ..just a bit wide .. if yours are on may fit them as well as 3 khz .. assume the self set up will simply allocate them a slot ?

tnx

G ..

395. Re: [Racal6790GM] LCD displays for 6790

Yahoo group: Racal6790GM
Date: 2006-03-27 01:47:33 UTC
From: gewingerd@netzero.com
Topic: 380 Message: 395

sparti3myst
ras@...
Peter in Australia, I have the NEW displays for the RA6790/GM , shipped to you is $140.00.
You can paypal the funds to gewingerd@...
Thanks,
Gary Wingerd

[Non-text portions of this message have been removed]

396. Operating environment

Yahoo group: Racal6790GM
Date: 2006-03-31 19:33:20 UTC
From: iq_rx
Topic: 396 Message: 396

I need a new lab receiver for a space without good temperature control. Gets down to +40F a few days in the winter and up to 100F very occasionally in the summer. What problems can I expect from a 6790 when I turn it on at 40F or 100F? Some of my HP/Agilent gear from the same era really doesn't do well outside a narrow room-temperature window.

Best Regards,
Rick KK7B

397. Re: [Racal6790GM] Operating environment

Yahoo group: Racal6790GM
Date: 2006-04-01 16:43:31 UTC
From: gewingerd@netzero.com
Topic: 396 Message: 397

The RA6790/GM is a full mil spec receiver that will work from 0 to 125 degrees, the receivers were designed to work in the range that you need.
Thanks,
Gary

[Non-text portions of this message have been removed]

398. What size main tune knob 'pinch screw' ?

Yahoo group: Racal6790GM
Date: 2006-04-02 12:47:46 UTC
From: Graham
Topic: 398 Message: 398

What size main tune dial 'pinch screw' ?

Not a very technical post ... but anyone know what size or type
of 'alan key' fits the main tune knob .. of all the ones i have - none
fits -

tnx - G .

399. Re: [Racal6790GM] What size main tune knob 'pinch screw' ?

Yahoo group: Racal6790GM
Date: 2006-04-02 13:40:18 UTC
From: toddroberts2001@aol.com
Topic: 398 Message: 399

In a message dated 4/2/2006 9:13:32 AM Eastern Standard Time,
g0nbd@... writes:
What size main tune dial 'pinch screw' ?

Not a very technical post ... but anyone know what size or type
of 'alan key' fits the main tune knob .. of all the ones i have - none
fits -
tnx - G .

G - size 5/64 standard allen key works on mine - 73 Todd WD4NGG

400. Re: What size main tune knob 'pinch screw' ?

Yahoo group: Racal6790GM
Date: 2006-04-02 17:25:17 UTC
From: Graham
Topic: 398 Message: 400

--- In Racal6790GM@yahoogroups.com, toddroberts2001@... wrote:
>
> In a message dated 4/2/2006 9:13:32 AM Eastern Standard Time,
> g0nbd@... writes:
> What size main tune dial 'pinch screw' ?
>
> Not a very technical post ... but anyone know what size or type
> of 'alan key' fits the main tune knob .. of all the ones i have -
none
> fits -
> tnx - G .
>
> G - size 5/64 standard allen key works on mine - 73 Todd WD4NGG
>

Ok Todd, well only sets I can see listed (in uk)have a 6/64 key ..
not a 5/64 .. if so that would explain why it wont fit ...

Tnx -

Graham ..

401. Re: [Racal6790GM] Re: What size main tune knob 'pinch screw' ?

Yahoo group: Racal6790GM
Date: 2006-04-03 15:31:00 UTC
From: gandalfg8@aol.com
Topic: 398 Message: 401

In a message dated 03/04/2006 16:16:37 GMT Daylight Time, g0nbd@...
writes:

Ok Todd, well only sets I can see listed (in uk)have a 6/64 key ..
not a 5/64 .. if so that would explain why it wont fit ...

Tnx -

Graham ..

Hi Graham

I have a Draper "Set of 3 key sets", in a see through display pack on a
card, and bought in the UK.
Info taken from the packaging identifies the set as Draper part number
KN/AMT, stock number 55120.
This is a set of three plastic handles with fold away keys...
AF, Metric, and "Draper TX-Star".
The AF set has a yellow handle and is marked with its own part number of
KN/7A, stock number 55117.
They're not the most convenient to use, short keys and the handle sometimes
gets in the way, but if you can't find anything elsewhere it might be an
option.

regards

Nigel
G8PZR

[Non-text portions of this message have been removed]

402. Re: [Racal6790GM] Re: What size main tune knob 'pinch screw' ?

Yahoo group: Racal6790GM
Date: 2006-04-03 15:35:28 UTC
From: gandalfg8@aol.com
Topic: 398 Message: 402

Whoops....
didn't actually mention that one of the AF keys IS 5/64" :-)
regards
Nigel
G8PZR
In a message dated 03/04/2006 16:32:26 GMT Daylight Time, gandalfg8@...
writes:

I have a Draper "Set of 3 key sets", in a see through display pack on a
card, and bought in the UK.
Info taken from the packaging identifies the set as Draper part number
KN/AMT, stock number 55120.
This is a set of three plastic handles with fold away keys...
AF, Metric, and "Draper TX-Star".
The AF set has a yellow handle and is marked with its own part number of
KN/7A, stock number 55117.
They're not the most convenient to use, short keys and the handle sometimes
gets in the way, but if you can't find anything elsewhere it might be an
option.

[Non-text portions of this message have been removed]

403. Interesting Racal 6790 on eBay

Yahoo group: Racal6790GM
Date: 2006-04-23 15:47:19 UTC
From: toddroberts2001@aol.com
Topic: 403 Message: 403

Hi All, I am sure many of you may have seen this RA6790 on eBay recently. I was wondering if anyone else noticed there is something different about the front panel? The cutouts for the displays and keypads don't have the bevels around the edges like every other 6790 I have ever seen and the layout of the controls is slightly different. The seller states this is the 6790 before the /GM version. Would this be a very early version of the 6790? The LCDs look crisp and clear. 73 Todd WD4NGG

http://cgi.ebay.com/Mint-Racal-RA6790-RA-6790-General-Coverage-HF-Receiver_W0QQitemZ9714319010QQcategoryZ15051QQrdZ1QQcmdZViewItem

404. Re: [Racal6790GM] Interesting Racal 6790 on eBay

Yahoo group: Racal6790GM
Date: 2006-04-23 16:05:24 UTC
From: Dan Rae
Topic: 403 Message: 404

toddroberts2001@... wrote:

> Hi All, I am sure many of you may have seen this RA6790 on eBay
> recently. I
> was wondering if anyone else noticed there is something different
> about the
> front panel? The cutouts for the displays and keypads don't have the
> bevels
> around the edges like every other 6790 I have ever seen and the layout
> of the
> controls is slightly different. The seller states this is the 6790
> before the /GM
> version.

Todd, that's exactly what it is, the forerunner of the RA6790/GM, before they implemented the changes that the US Government asked for to make the /GM version.
No fault led is the big clue, other than the name! And for some reason, the name plate on this one has been removed from the back and stuck on to the front panel. There are more differences at the back, and the A4 board layout is very different as well.
73
Dan
ac6ao / g3ncr

405. Re: [Racal6790GM] Interesting Racal 6790 on eBay

Yahoo group: Racal6790GM
Date: 2006-04-23 16:37:33 UTC
From: gewingerd@netzero.com
Topic: 403 Message: 405

Todd,

This what I sent the fellow that has the RA6790 on EBAY.

I worked for RACAL for more than 20 years (most of that time as the Repair Supervisor) and the RA6790 with filters sold for $1200.00 new. The last 100 of the 800 made sold for $400.00 each just to get them out of stock.These were the PROTO TYPES for the RA6790GM that the USAF Bought, they did not like several things about the RA6790. All the boards are removable from the RA6790/GM without desoldering any thing, not so on the RA6790. The displays are different on the two units, the backlight is different, the keyboards are backlit on the
RA6790/GM and can be seen in the dark. Now for the electrical specs these 2 receivers are different as night is from day. The only write ups on the Internet are on the RA6790/GM receivers.
Over 12,000 RA6790/GM receivers were made and they sold for much more, $3500.00 to $18,000.00 over the next 16 years, (1980 to 1996).
"Don't be surprised that you may get a unhappy customer that wins the receiver thinking that he is getting a RA6790/GM."
Thanks
Gary E. Wingerd

406. RE: [Racal6790GM] Interesting Racal 6790 on eBay

Yahoo group: Racal6790GM
Date: 2006-04-24 12:11:14 UTC
From: Carcia, Francis A HS
Topic: 403 Message: 406

Gary,
What is different about the specs. I thought they were pretty much the same radio. What makes them different. Frank

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of gewingerd@...
Sent: Sunday, April 23, 2006 12:38 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Interesting Racal 6790 on eBay

Todd,

This what I sent the fellow that has the RA6790 on EBAY.

I worked for RACAL for more than 20 years (most of that time as the Repair Supervisor) and the RA6790 with filters sold for $1200.00 new. The last 100 of the 800 made sold for $400.00 each just to get them out of stock.These were the PROTO TYPES for the RA6790GM that the USAF Bought, they did not like several things about the RA6790. All the boards are removable from the RA6790/GM without desoldering any thing, not so on the RA6790. The displays are different on the two units, the backlight is different, the keyboards are backlit on the
RA6790/GM and can be seen in the dark. Now for the electrical specs these 2 receivers are different as night is from day. The only write ups on the Internet are on the RA6790/GM receivers.
Over 12,000 RA6790/GM receivers were made and they sold for much more, $3500.00 to $18,000.00 over the next 16 years, (1980 to 1996).
"Don't be surprised that you may get a unhappy customer that wins the receiver thinking that he is getting a RA6790/GM."
Thanks
Gary E. Wingerd

Yahoo! Groups Links

407. Re: Interesting Racal 6790 on eBay

Yahoo group: Racal6790GM
Date: 2006-04-23 23:07:01 UTC
From: Graham
Topic: 403 Message: 407

Back lit key pads ?

My /gm dose not have back lit key pads .. would be a handy thing but looking a the back of the panel - there is no provision for any kind of lamps behind the key pad's

Q ... what have i got ? the front panel is marked /gm - it has 'green' edge lighting for the lcd's - is key pad lighting a option fit ?

G ..

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Todd,
>
> This what I sent the fellow that has the RA6790 on EBAY.
>
> I worked for RACAL for more than 20 years (most of that time as the Repair
> Supervisor) and the RA6790 with filters sold for $1200.00 new. The last 100 of the 800 made sold for $400.00 each just to get them out of stock.These were the PROTO TYPES for the RA6790GM that the USAF Bought, they did not like several things about the RA6790. All the boards are removable from the RA6790/GM without desoldering any thing, not so on the RA6790. The displays are different on the two units, the backlight is different, the keyboards are backlit on the
> RA6790/GM and can be seen in the dark. Now for the electrical specs these 2 receivers are different as night is from day. The only write ups on the Internet are on the RA6790/GM receivers.
> Over 12,000 RA6790/GM receivers were made and they sold for much more, $3500.00 to $18,000.00 over the next 16 years, (1980 to 1996).
> "Don't be surprised that you may get a unhappy customer that wins the receiver thinking that he is getting a RA6790/GM."
> Thanks
> Gary E. Wingerd
>

408. Back lit kep pads ?

Yahoo group: Racal6790GM
Date: 2006-04-24 10:31:57 UTC
From: Graham
Topic: 408 Message: 408

I note from Gary's post that the /GM has back lit key pads .. looking inside my /GM there is no provision for this .. the lcd's are edge lit, but the pads dont have anything ?

So what have I got .. the rx boards are all plugged in,there is a fault lamp on the front panel etc .

Is the back lighting a otion fit ?

Rgds

G ..

409. RA 6774 MANUAL NEEDED

Yahoo group: Racal6790GM
Date: 2006-04-24 14:18:20 UTC
From: oscar873@aol.com
Topic: 409 Message: 409

Anyone have a RA 6774 manual for sale?
Thanks
Al

[Non-text portions of this message have been removed]

410. Re: [Racal6790GM] Interesting Racal 6790 on eBay

Yahoo group: Racal6790GM
Date: 2006-04-24 14:21:33 UTC
From: oscar873@aol.com
Topic: 403 Message: 410

Gary,
How do the specs differ on these last units?
Al

-----Original Message-----
From: gewingerd@... <gewingerd@...>
To: Racal6790GM@yahoogroups.com
Sent: Sun, 23 Apr 2006 16:37:33 GMT
Subject: Re: [Racal6790GM] Interesting Racal 6790 on eBay

Todd,

This what I sent the fellow that has the RA6790 on EBAY.

I worked for RACAL for more than 20 years (most of that time as the Repair Supervisor) and the RA6790 with filters sold for $1200.00 new. The last 100 of the 800 made sold for $400.00 each just to get them out of stock.These were the PROTO TYPES for the RA6790GM that the USAF Bought, they did not like several things about the RA6790. All the boards are removable from the RA6790/GM without desoldering any thing, not so on the RA6790. The displays are different on the two units, the backlight is different, the keyboards are backlit on the RA6790/GM and can be seen in the dark. Now for the electrical specs these 2 receivers are different as night is from day. The only write ups on the Internet are on the RA6790/GM receivers.
Over 12,000 RA6790/GM receivers were made and they sold for much more, $3500.00 to $18,000.00 over the next 16 years, (1980 to 1996).
"Don't be surprised that you may get a unhappy customer that wins the receiver thinking that he is getting a RA6790/GM."
Thanks
Gary E. Wingerd

Yahoo! Groups Links

[Non-text portions of this message have been removed]

411. Re: [Racal6790GM] Re: Interesting Racal 6790 on eBay

Yahoo group: Racal6790GM
Date: 2006-04-24 16:02:50 UTC
From: gewingerd@netzero.com
Topic: 403 Message: 411

The keypads are attached to a Plexiglas bezel and in a dark room they are back-lit.

Gary

412. Re: [Racal6790GM] Interesting Racal 6790 on eBay

Yahoo group: Racal6790GM
Date: 2006-04-24 16:08:34 UTC
From: gewingerd@netzero.com
Topic: 403 Message: 412

The last units built had a different A2 Mixer box, A newer A7 card, A newer A8 card, A newer A4 card and A6A2 was a Z80 instead of the F8 CPU and a 9970 as the A6A1 card, and the power supply had a different filter cap installed for the +20 Volts. All of this did make them a different receiver inside, all the boards are still interchangeable.

Thanks,
Gary

413. RE: [Racal6790GM] Interesting Racal 6790 on eBay

Yahoo group: Racal6790GM
Date: 2006-04-24 18:22:39 UTC
From: gewingerd@netzero.com
Topic: 403 Message: 413

Let's start with BITE, the RA6790/GM has it the RA6790 does not, this is a major change requested by the USAF. The RA6790/GM can have the following optional boards that just plug in, The A5, A14, A15, A23, A24, And A25. The A5 ISB is an option for the RA6790 however you have to change the Ribbon cable Assy. The power supplies are different between the 2 receivers. The RA6790/GM can have the optional A1 with mute and 8 db of gain or the A1A1 9612/9621 RF input protection. The edge light is only on the RA6790/GM, the RA6790 has no edge light. The key pads are different in the number pattern between the two receivers. Electrically they are close but not the same, 6 filters & a resistor pad verse 7 filters Mechanical or crystal filters that plug in and more than 30 to choose from. The RA6790/GM can be configured over 200 different ways with all the A2 cards more than 10 different cards, A7 cards 4 different ones, A8 cards 6 different ones, A4 cards more than 4 different ones, RS232 interfaces 2 different ones, 2 different IEEE interfaces, A6A2 cards 4 different ones with more than 30 different software changes.

Thanks,
Gary

414. Re: Interesting Racal 6790 on eBay

Yahoo group: Racal6790GM
Date: 2006-04-25 16:47:06 UTC
From: Graham
Topic: 403 Message: 414

... Gary, odd one this .. The pads are mounted on perspex/plexiglass , but there dosent seem to be any means of Illumination . the 'info' lcd is lit top and bottom as id the frequency display by a row of 'green led's' but no edge light's for the pads ..

do they rely on spill from the main lcd panels, as in the dark the pds dont appear to be lit ?

am i missing a row of led's on each pod ?

Tnx

Graham ..

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> The keypads are attached to a Plexiglas bezel and in a dark room they are back-lit.
>
> Gary
>

415. Re: [Racal6790GM] Re: Interesting Racal 6790 on eBay

Yahoo group: Racal6790GM
Date: 2006-04-26 16:21:36 UTC
From: gewingerd@netzero.com
Topic: 403 Message: 415

The light is supplied by the LED's or lamps mounted at a right angle to the Plexiglas. It's not a lot of light to start with.
Thanks,
Gary

416. Re: Interesting Racal 6790 on eBay

Yahoo group: Racal6790GM
Date: 2006-04-27 16:56:05 UTC
From: Graham
Topic: 403 Message: 416

Ok Garry,

Just to get the full picture .. if you look at the back of the front panel should there be a strip of led's for each kekpad in addition to the sets for the 'lcd info panel' and the 'frequency display' ? on mine there are no lamps in this area, just a set for the lcd and display

I do get some light 'spill' from the existing led's but its nothing more than a slight glimmer - not enought to read the markings on the key pads ... and then only if you put your hand over the lit dispalys to stop dazzel

Tnx - Graham .

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> The light is supplied by the LED's or lamps mounted at a right angle to the Plexiglas. It's not a lot of light to start with.
> Thanks,
> Gary
>

417. Pre amp ... or no ... pre-amp

Yahoo group: Racal6790GM
Date: 2006-04-30 14:09:23 UTC
From: Graham
Topic: 417 Message: 417

i have a pre-amp for the rx .. but ive never fitted it , mainly because , after I managed to 'sneek' the set into the radar lab and set up the interstage gains, as per the good book - the set became quite usable as it was - ie rf direct to mixer .. and the inter 'fault lamp' was due to the on board regulator feedind the main LO being just out of tolerance - slight tweek on the pot and all was ok -

Now as i live close to a multi output mw tx (local 10kw) im concerned that the cross mod / oveload may be compromised by additional gain before the mixer, also as i have the vlf front end fitted will the pre-amp function in to the vlf spectrum ? as it is i can move one ch up and the sets back to full gain -splatter permitting- bbc splatter .. mm .. try a rainy day ... spurious output freq's ... no sir not us must be your equipment .. lol dont think so ! ..

Has anyone fitted the amp - and whats your before and after thoughts ? basically dont want to chop the set and find ive gone backwards !

Tnx - Graham .

418. (no subject)

Yahoo group: Racal6790GM
Date: 2006-05-04 09:09:21 UTC
From: gewingerd@netzero.com
Topic: 418 Message: 418

Internal mixer box 8504 FET ring.
I also have all the drawings for the mixer box that I will be posting soon.

Thanks,
Gary

[Non-text portions of this message have been removed]

419. RE: [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2006-05-04 12:20:27 UTC
From: Carcia, Francis A HS
Topic: 419 Message: 419

Gary do you know who makes the FET ring. The only one I know of is the 8901 fc

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of gewingerd@...
Sent: Thursday, May 04, 2006 5:09 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM]

Internal mixer box 8504 FET ring.
I also have all the drawings for the mixer box that I will be posting soon.

Thanks,
Gary

[Non-text portions of this message have been removed]

Yahoo! Groups Links

420. RE: [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2006-05-04 18:39:35 UTC
From: gewingerd@netzero.com
Topic: 420 Message: 420

Frank,
The FET Ring are 4 discreet parts.

Thanks,
Gary

421. RE: [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2006-05-04 19:03:57 UTC
From: Carcia, Francis A HS
Topic: 421 Message: 421

I thought so fc

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of gewingerd@...m
Sent: Thursday, May 04, 2006 2:40 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM]

Frank,
The FET Ring are 4 discreet parts.

Thanks,
Gary

Yahoo! Groups Links

422. information on SD5000

Yahoo group: Racal6790GM
Date: 2006-05-19 13:09:13 UTC
From: maxhdrm2
Topic: 422 Message: 422

Hello dr om
I am Takis ,sv1fjl .
I saw a photo of an sd5000 installation in a ra6790 mixer and I want to ask you if it is possible to send me any info (e.g. scimatics , pictorials)about this task .
Thank you in advance Takis .
sv1fjl@...

423. Re: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-05-19 16:00:28 UTC
From: gewingerd@netzero.com
Topic: 422 Message: 423

I am working on a full package that I will be posting soon that will have schematics, all drawings and step by step instructions.
I have located the chips and I am working to get the PC boards made that are needed for the UPGRADE. The RA6790/GM last 200 built had the FET IC installed in them, The US Air Force bought 500 of the UPGRADED 8504 Mixer box assy with the FET IC Installed in them. It will take time however all of the bad RA6790/GM mixer boxes can be upgraded and made fully functional again.

Thanks,
Gary

424. Repair / troubleshooting assistance

Yahoo group: Racal6790GM
Date: 2006-05-19 15:12:34 UTC
From: mallen1100
Topic: 424 Message: 424

Hello Members,

I use the 6790 as my primary amateur radio receiver. I have a primary and backup unit.

Within the last month, both units have failed with different problems.

I have no access to requisite test equipment and parts. Besides, I am terrible at technical issues, I am an operator type.... Are there any members who can recomend where I can obtain honest and qualified service for one or both of my units? I am happy to pay someone to solve these problems, as I enjoy the receiver(s) very much.

If you can provide any help, it would be HIGHLY appreciated. You can contact me here or at W6PC@....

Thanks and 73, de Mark W6PC

425. Re: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-05-19 19:01:58 UTC
From: James Colbert
Topic: 422 Message: 425

05192006

Dear Gary,

For the last several months, I have intended to coordinate with you about sending you my Racal RA6790/GM for general maintenance as well as learning what options your expertise makes possible. In any event, while I doubt you have many slack periods, please keep me in mind for that as well as for this package for connecting to the SDU5000, which from my own (admittedly not very well informed) opinion is a great idea . . . I hope you realize just how much pleasure you bring into this world.

Every good wish,

Jim Colbert

----- Original Message -----
From: gewingerd@...
To: Racal6790GM@yahoogroups.com
Sent: 5/19/2006 10:02:38 AM
Subject: Re: [Racal6790GM] information on SD5000

I am working on a full package that I will be posting soon that will have schematics, all drawings and step by step instructions.
I have located the chips and I am working to get the PC boards made that are needed for the UPGRADE. The RA6790/GM last 200 built had the FET IC installed in them, The US Air Force bought 500 of the UPGRADED 8504 Mixer box assy with the FET IC Installed in them. It will take time however all of the bad RA6790/GM mixer boxes can be upgraded and made fully functional again.

Thanks,
Gary

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Racal6790GM-unsubscribe@yahoogroups.com

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[Non-text portions of this message have been removed]

426. Re: [Racal6790GM] Repair / troubleshooting assistance

Yahoo group: Racal6790GM
Date: 2006-05-19 20:01:12 UTC
From: gewingerd@netzero.com
Topic: 424 Message: 426

Mark,

Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733

21 Years at RACAL most of that as the repair supervisor.
$35.00 an hour plus parts and shipping.
Most receivers can be repaired and aligned for less than $250.00
I sell and keep in the stock the following items:
FREQUENCY LCD
MODE LCD
BATTERY NiMh
9666 UPGRADE SOFTWARE
LED UPGRADE for the front panels

thanks,
Gary

427. Re: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-05-20 01:03:01 UTC
From: gewingerd@netzero.com
Topic: 422 Message: 427

Jim,

Here is the next installment for the SD5000I ic. The card will be 2100139-501 Rev A and it will solder in place of the existing FET Card. I have attached the file for the schematic.

Thanks,
Gary

[Non-text portions of this message have been removed]

428. Re: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-05-20 01:19:34 UTC
From: mparkinson1
Topic: 422 Message: 428

Gary what is all the talk about the SD5000ic mod that some of these guy want.
I am catching back up on emails and I happened to come across these emails. I have several of the receiver worked on by you and I am please with the work.
I was just wondering if anything what will this mod do or is it someone is have major failures with there receiver front end and this is just going to fix there mixer problems.
Matt Parkinson R-390A Depot Repair.

429. Re: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-05-20 02:49:41 UTC
From: gewingerd@netzero.com
Topic: 422 Message: 429

Matt,

The SD5000I was installed in the last 200 RA6790/GM receivers because the discreet FET's were no longer available. The same SD5000I IC Boards were installed the last RA6793A receivers also, the USAF ordered 500 new 8504 mixer box's that had the new IC installed at the time (1990-1992). So there are at least 700 plus already out there.
I am working to reverse design the IC cards so they can replace the FET cards that are bad. I will put it in a kit with drawings, schematics, assembly instructions, pictures and anything else that will make it easy to upgrade.

Thanks,
Gary

430. Re: [Racal6790GM] Repair / troubleshooting assistance

Yahoo group: Racal6790GM
Date: 2006-05-19 21:52:09 UTC
From: ALLENMARKS@aol.com
Topic: 424 Message: 430

Hi Gary-

Thanks for the phone chat and followup email.

I will take both units tomorrow (Sat) and get them packed and shipped to you.

I will enclose 2 return FedEx shippers with my account #, preaddressed.

If the repairs are less than $250 each, just proceed. If we get into
something radical I would like to know about it first.

My contact data:

Mark Allen
3512 Pine Tree Loop
Haines City, FL 33844

Tel: 407-697-2629
Email, either this one or _w6pc@..._ (mailto:w6pc@...)

Until later,

Thanks, M Allen

In a message dated 5/19/2006 4:06:53 PM Eastern Daylight Time,
gewingerd@... writes:

Mark,

Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733

21 Years at RACAL most of that as the repair supervisor.
$35.00 an hour plus parts and shipping.
Most receivers can be repaired and aligned for less than $250.00
I sell and keep in the stock the following items:
FREQUENCY LCD
MODE LCD
BATTERY NiMh
9666 UPGRADE SOFTWARE
LED UPGRADE for the front panels

thanks,
Gary

[Non-text portions of this message have been removed]

431. Re: [Racal6790GM] Repair / troubleshooting assistance

Yahoo group: Racal6790GM
Date: 2006-05-20 03:50:40 UTC
From: mparkinson1
Topic: 424 Message: 431

Mark you have made the right choice.
Gary is the best and I am sure you won't be disappointed.
I am a Electronic engineer and I can personally vouch for Gary's work.
Outstanding is the only word to use for his work.
I have had several receiver repaired by Gary.
Although I could have done the work myself it sort of like sending your car to the dealer
for work they know the car better than anyone else and can get most parts to make any nessary repairs.

Matt Parkinson R-390A Depot Repair.

432. RE: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-05-22 12:09:59 UTC
From: Carcia, Francis A HS
Topic: 422 Message: 432

The SD5000 works great in the RA6830 my HP8640B just about saturates it with it wide open plus 19 dBM. fc

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of mparkinson1
Sent: Friday, May 19, 2006 9:20 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] information on SD5000

Gary what is all the talk about the SD5000ic mod that some of these guy want.
I am catching back up on emails and I happened to come across these emails. I have several of the receiver worked on by you and I am please with the work.
I was just wondering if anything what will this mod do or is it someone is have major failures with there receiver front end and this is just going to fix there mixer problems.
Matt Parkinson R-390A Depot Repair.

Yahoo! Groups Links

433. RE: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-05-22 18:12:35 UTC
From: gewingerd@netzero.com
Topic: 422 Message: 433

The SD5000I is a direct replacement for the FET's, I am working o get some of the pc boards made to make a kit to replace the FET card in the mixer box's that are dead now.

Thanks,
Gary

434. RE: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-05-22 19:15:16 UTC
From: tony dinkel
Topic: 422 Message: 434

Just curious, did I get discretes or the IC?

td

>From: "gewingerd@..." <gewingerd@...>
>Reply-To: Racal6790GM@yahoogroups.com
>To: Racal6790GM@yahoogroups.com
>Subject: RE: [Racal6790GM] information on SD5000
>Date: Mon, 22 May 2006 18:12:35 GMT
>
>The SD5000I is a direct replacement for the FET's, I am working o get some
>of the pc boards made to make a kit to replace the FET card in the mixer
>box's that are dead now.
>
>Thanks,
>Gary
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>Yahoo! Groups Links
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435. RE: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-05-22 20:39:43 UTC
From: Carcia, Francis A HS
Topic: 422 Message: 435

Gary check out "express pcb"

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of gewingerd@...
Sent: Monday, May 22, 2006 2:13 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] information on SD5000

The SD5000I is a direct replacement for the FET's, I am working o get some of the pc boards made to make a kit to replace the FET card in the mixer box's that are dead now.

Thanks,
Gary

Yahoo! Groups Links

436. RE: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-05-22 20:56:27 UTC
From: Carcia, Francis A HS
Topic: 422 Message: 436

BTW the SD5000 uses protected gate FETs so a bit better for ESD.

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of tony dinkel
Sent: Monday, May 22, 2006 3:15 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] information on SD5000

Just curious, did I get discretes or the IC?

td

>From: "gewingerd@..." <gewingerd@...>
>Reply-To: Racal6790GM@...m
>To: Racal6790GM@yahoogroups.com
>Subject: RE: [Racal6790GM] information on SD5000
>Date: Mon, 22 May 2006 18:12:35 GMT
>
>The SD5000I is a direct replacement for the FET's, I am working o get some
>of the pc boards made to make a kit to replace the FET card in the mixer
>box's that are dead now.
>
>Thanks,
>Gary
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>Yahoo! Groups Links
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Yahoo! Groups Links

437. RE: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-05-23 16:10:40 UTC
From: gewingerd@netzero.com
Topic: 422 Message: 437

Tony,

You got the last of the new FET's in a new mixer box.
Thanks,
Gary

438. Panadaptor hook-up

Yahoo group: Racal6790GM
Date: 2006-05-25 04:15:41 UTC
From: Bill Turini
Topic: 438 Message: 438

This month's CQ has a nice article about modifying an SM220 with the panadaptor for other IF frequencies. I've been thinking of modifying mine for the IF on the Racal 6790GM and hooking it up to the output jack.

Is this a reasonable thing to do? What sort of bandwidth will I be able to see?

Thanks,

Bill KA4GAV
www.hamanuals.com
--
NeoMail - http://neomail.sourceforge.net

439. RE: [Racal6790GM] Panadaptor hook-up

Yahoo group: Racal6790GM
Date: 2006-05-25 12:12:52 UTC
From: Carcia, Francis A HS
Topic: 438 Message: 439

If you set it to 455 KHz you will see the bandwidth of the first IF filters. Usually around 20 KHz wide unless you have a true low frequency model with 8 KHz filters. You would have to interface ahead of the bank of filters.
If you just connect to the IF output then the bandwidth will be equal to the filter selected.
There is a resistive divider ahead of the filter bank. I suspect you could tie in with another 4.7 K resistor. fc

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Bill Turini
Sent: Thursday, May 25, 2006 12:16 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Panadaptor hook-up

This month's CQ has a nice article about modifying an SM220 with the panadaptor for other IF frequencies. I've been thinking of modifying mine for the IF on the Racal 6790GM and hooking it up to the output jack.

Is this a reasonable thing to do? What sort of bandwidth will I be able to see?

Thanks,

Bill KA4GAV
www.hamanuals.com
--
NeoMail - http://neomail.sourceforge.net

Yahoo! Groups Links

440. Re: Panadaptor hook-up

Yahoo group: Racal6790GM
Date: 2006-05-26 16:22:11 UTC
From: Graham
Topic: 438 Message: 440

There is a resistive divider ahead of the filter bank. I suspect you could
> tie in with another 4.7 K resistor. fc <<<<<

I think you would only see the bandwith as determined by the roofing filter in the first IF ... ?

The RX is a 'conventional superhet' ie the first local osc tunes ... unlike the RA17 wich is a 'tuneable IF' First LO is stepped at 1 Mhz with the full 1 Mhz
translated spectrum available at the second 2/3 Mhz IF - final conversion down to 100 KHz

I have (or should I say had as the rx and pan adaptor have failed and are in need of a few weeks upside down on the bench) the RA17 and Pan-adaptor set-up and can view up to 1 Mhz sections at a time, as the pan-adaptor effectivly sweeps 2/3 Mhz or a section there of dependant upon the sweep center and 'span' setting's

I think You would see a good 20 Khz bandwith enough to chech a rig on tx or rx signal bandwith , but not a 'band sweep'

Hope that help's ?

Graham G8FZK/G0NBD

--- In Racal6790GM@yahoogroups.com, "Carcia, Francis A HS" <francis.carcia@...> wrote:
>
> If you set it to 455 KHz you will see the bandwidth of the first IF filters.
> Usually around 20 KHz wide unless you have a true low frequency model with 8
> KHz filters. You would have to interface ahead of the bank of filters.
> If you just connect to the IF output then the bandwidth will be equal to the
> filter selected.
> There is a resistive divider ahead of the filter bank. I suspect you could
> tie in with another 4.7 K resistor. fc
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> -----Original Message-----
> From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
> Behalf Of Bill Turini
> Sent: Thursday, May 25, 2006 12:16 AM

> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Panadaptor hook-up
>
> This month's CQ has a nice article about modifying an SM220 with the
> panadaptor for other IF frequencies. I've been thinking of modifying
> mine for the IF on the Racal 6790GM and hooking it up to the output
jack.
>
> Is this a reasonable thing to do? What sort of bandwidth will I be
able
> to see?
>
> Thanks,
>
> Bill KA4GAV
> www.hamanuals.com
> --
> NeoMail - http://neomail.sourceforge.net
>
>
>
>
> Yahoo! Groups Links
>

441. PRE - AMP

Yahoo group: Racal6790GM
Date: 2006-06-10 11:22:39 UTC
From: Graham
Topic: 441 Message: 441

Looking at the amplifer .(part of replacement rear panel assy) .

there is a mute out and mute in marked on the cct running from
the amplfier - looks like its piggey backed on the rf-over voltage
protection cct ...

Q where do these go to .. is there a termination on one of the rx
boards .. or are they addressed extrnally ?

(something that Ive just realised I dident have - running the rx as
is with no pre-amp ... means no input protection for the first mixer)

also there is a provision to disable the 'rf stage' and just run
with the input protection and the pass band filter .. which is hand
as i live close to a mw station that may ove load the front end -
its ok with just the mixer ..

Thank's

Graham .

442. RE: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-06-19 19:02:03 UTC
From: gewingerd@netzero.com
Topic: 422 Message: 442

I have purchased 50 of the SD5000I IC chips and have had the PC Cards made. These kits will repair the mixer box assemble on the RA6790/GM, RA6793, RA6793A, RA6778, RA6778Q, RA6778C and many other RACAL receivers built in the USA. Certain RA6793A receivers require a different card and I have 25 of these built and in stock now. I will have the repair kit for sale for $100.00 to first come first served. The kit includes all parts (SD5000I IC, 2 56pf caps, 1 RAW PC Board), schematics, drawings and assemble instructions.
Thanks,
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733

443. Re: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-06-19 19:41:23 UTC
From: oscar873@aol.com
Topic: 422 Message: 443

Gary,
Is this an enhancement, repiar a bad IC ,or what ?
How could one tell on RA 6793A whether they need a special card?
Thanks
Al
-----Original Message-----
From: gewingerd@... <gewingerd@...>
To: Racal6790GM@yahoogroups.com
Sent: Mon, 19 Jun 2006 19:02:03 GMT
Subject: RE: [Racal6790GM] information on SD5000

I have purchased 50 of the SD5000I IC chips and have had the PC Cards
made. These kits will repair the mixer box assemble on the RA6790/GM,
RA6793, RA6793A, RA6778, RA6778Q, RA6778C and many other RACAL
receivers built in the USA. Certain RA6793A receivers require a
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The kit includes all parts (SD5000I IC, 2 56pf caps, 1 RAW PC Board),
schematics, drawings and assemble instructions.
Thanks,
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733

_____
Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on
demand. Always Free.

[Non-text portions of this message have been removed]

444. RE: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-06-19 20:00:38 UTC
From: Carcia, Francis A HS
Topic: 422 Message: 444

The SD5000 has the added feature of protected gate FETs making them less prone to ESD damage over the discrete FETs. frank.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of gewingerd@...
Sent: Monday, June 19, 2006 3:02 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] information on SD5000

I have purchased 50 of the SD5000I IC chips and have had the PC Cards made. These kits will repair the mixer box assemble on the RA6790/GM, RA6793, RA6793A, RA6778, RA6778Q, RA6778C and many other RACAL receivers built in the USA. Certain RA6793A receivers require a different card and I have 25 of these built and in stock now. I will have the repair kit for sale for $100.00 to first come first served. The kit includes all parts (SD5000I IC, 2 56pf caps, 1 RAW PC Board), schematics, drawings and assemble instructions.
Thanks,
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733

[Non-text portions of this message have been removed]

445. RE: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-06-19 20:14:23 UTC
From: mstangelo@comcast.net
Topic: 422 Message: 445

Gary,

Could you post the assemply instructions so that we could get a feel for the complexity of this repair?

Thanks,

Mike N2MS

-------------- Original message --------------
From: "gewingerd@..." <gewingerd@...>

> I have purchased 50 of the SD5000I IC chips and have had the PC Cards
> made. These kits will repair the mixer box assemble on the RA6790/GM,
> RA6793, RA6793A, RA6778, RA6778Q, RA6778C and many other RACAL
> receivers built in the USA. Certain RA6793A receivers require a
> different card and I have 25 of these built and in stock now. I will
> have the repair kit for sale for $100.00 to first come first served.
> The kit includes all parts (SD5000I IC, 2 56pf caps, 1 RAW PC Board),
> schematics, drawings and assemble instructions.
> Thanks,
> Gary E. Wingerd
> 9107 Jordan Rd.
> Fairplay, MD 21733
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

446. Re: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-06-20 05:30:29 UTC
From: mparkinson1
Topic: 422 Message: 446

Gary I have 2 of the 6790GM that you have repaired or restored.
Would be in my best interest in buying this SD5000 Kit if so I will take one.
I will paypal you if that is what you want for funding.
Thanks
Matt Parkinson R-390A Depot Repair.

[Non-text portions of this message have been removed]

447. RE: [Racal6790GM] information on SD5000

Yahoo group: Racal6790GM
Date: 2006-06-20 15:47:08 UTC
From: gewingerd@netzero.com
Topic: 422 Message: 447

INSTRUCTIONS FOR REMOVAL AND INSTALLATION OF THE 2100139 FET CARD

Remove the A2 card from receiver, remove the Mixer Box cover with a 60 watt soldering iron and solder wick. Place the cover aside for later re-installation. Remove the old FET Card assy and unsolder all the leads to the card.

Solder leads 5, 7, 8 & 10 to the top side of the card.
Solder leads 3, 4, 6, & 9 to the bottom side of the card.
Solder the ground tab to the Mixer Box.

Reinstall the card and check the gain of the receiver, the spec is -113dBm for 10 dB SINAD.
The Mixer card A2 is +2 to -4dB Gain/Loss for the RA6790/GM receiver.

If the card is working correctly remove the card and reinstall the mixer cover. No adjustments are required to the cap board inside the Mixer Box; the cap board is for the output filter alignment response and flatness.

This card will work in the RA6790GM, R2174, RA6793, RA6793A, RA6775, RA6778, RA6778C, RA6778Q and most of the receivers that use the FET Ring design made by RACAL. I have others for the different RA6793, RA6793A and RA6830JD receivers. This is a direct replacement for SD215DE FET?s on the FET Card, This IC card was designed by RACAL and built into more than 300 RA6790/GM receivers and installed into 500 spare mixer box assemblies sold to the US Government. I had to reverse the design to get the PC Boards made and they are the same as the RACAL boards except they are not $295.00 each like they were in 1988.
This is what you get, 1 new 2100139 RAW PC card, 1 SD5000I IC, 2 56pf caps, Assembly drawings and work instructions.
I have installed this into several receivers to get them back in operation. The receivers that I fixed had ERROR Code 15 when I ran BITE on the receivers. I checked the gain or loss of the A2 cards and found them to be at least 55 to 60 db low in gain. I also had to replace the driver transistors on 2 of the cards to get them running to spec. These PC cards will give life back to a dead receiver.

448. Racal6790GM-unsubscribe@yahoogroups.com

Yahoo group: Racal6790GM
Date: 2006-06-21 16:28:13 UTC
From: ptapon217
Topic: 448 Message: 448

[Body unavailable in the source archive]

449. 26-pin MIL connector for A6A1 serial card

Yahoo group: Racal6790GM
Date: 2006-06-30 22:52:30 UTC
From: pidxr
Topic: 449 Message: 449

Can anyone help me find the 26-pin MIL connector, MC3723-02R-1626N for the serial data port on the RA6790/GM. Anyone know the equivalent Amphenol product number?

Thanks

450. Re: [Racal6790GM] 26-pin MIL connector for A6A1 serial card

Yahoo group: Racal6790GM
Date: 2006-07-01 12:44:58 UTC
From: toddroberts2001@aol.com
Topic: 449 Message: 450

In a message dated 7/1/2006 6:12:06 AM Eastern Standard Time,
bipi@... writes:
Can anyone help me find the 26-pin MIL connector, MC3723-02R-1626N for
the serial data port on the RA6790/GM. Anyone know the equivalent
Amphenol product number?
Thanks

The Amphenol part number is : MS3116F16-26S

73 Todd WD4NGG

451. Re: [Racal6790GM] 26-pin MIL connector for A6A1 serial card

Yahoo group: Racal6790GM
Date: 2006-07-01 14:28:27 UTC
From: Dan Rae
Topic: 449 Message: 451

>bipi@... writes:
>Can anyone help me find the 26-pin MIL connector, MC3723-02R-1626N for
>the serial data port on the RA6790/GM. Anyone know the equivalent
>Amphenol product number?
>Thanks
>
>The Amphenol part number is : MS3116F16-26S
>
>73 Todd WD4NGG
>
>
And it is in both the Mouser and Digikey catalogs, around $30 from
memory, for the complete thing with solder cup connections, cable clamp
and back shell.
Dan
ac6ao

452. Re: [Racal6790GM] 26-pin MIL connector for A6A1 serial card

Yahoo group: Racal6790GM
Date: 2006-07-01 14:32:11 UTC
From: gewingerd@netzero.com
Topic: 449 Message: 452

I have 2 new ones in the shop, they are $45.00 each plus shipping. I
accept PayPal to:
gewingerd@...
or money orders and checks to:
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD. 21733

453. Re: [Racal6790GM] 26-pin MIL connector for A6A1 serial card

Yahoo group: Racal6790GM
Date: 2006-07-01 15:06:30 UTC
From: Leigh Sedgwick
Topic: 449 Message: 453

Hi Gary,

Thanks for the reply. I would like to purchase one of your new Mil connectors and will send you payment via PayPal later today. Also, if OK with you, I would like to give you a quick 5 minute phone call today to discuss purchasing some additional parts and combine shipping. Please pass along your telephone number if this would be acceptable to you.

Thanks again....

Mike, K7PI
Mercer Island, WA
http://home.comcast.net/~bipi/home.html

----- Original Message -----
From: <gewingerd@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, July 01, 2006 7:32 AM
Subject: Re: [Racal6790GM] 26-pin MIL connector for A6A1 serial card

>I have 2 new ones in the shop, they are $45.00 each plus shipping. I
> accept PayPal to:
> gewingerd@...
> or money orders and checks to:
> Gary E. Wingerd
> 9107 Jordan Rd.
> Fairplay, MD. 21733
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454. RA-6793A manuals?

Yahoo group: Racal6790GM
Date: 2006-07-01 18:00:21 UTC
From: Marco Bruno
Topic: 449 Message: 454

Hi all,

who may help me with a copy of the operating manual for the Racal
RA6793A (or even plain 6793) ?

All expenses reimboursed, of course. I tried the usual manual
dealers, but no joy.

73 - Marco IK1ODO

455. Re: [Racal6790GM] 26-pin MIL connector for A6A1 serial card

Yahoo group: Racal6790GM
Date: 2006-07-01 19:24:19 UTC
From: Mil Radman
Topic: 449 Message: 455

What is the difference of this connector to the MS3476L16-26S ?
And Gary W., do you still have the replacement FET mixer parts and board available for sale?
Another question concerning manuals for the RA6790. Is the tech manual from the military version (TM 32-5820-030-14&P) more specific and detailed that the civilian version available on-line?
John

toddroberts2001@... wrote:
In a message dated 7/1/2006 6:12:06 AM Eastern Standard Time,
bipi@... writes:
Can anyone help me find the 26-pin MIL connector, MC3723-02R-1626N for
the serial data port on the RA6790/GM. Anyone know the equivalent
Amphenol product number?
Thanks

The Amphenol part number is : MS3116F16-26S

73 Todd WD4NGG

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[Non-text portions of this message have been removed]

456. Re: [Racal6790GM] 26-pin MIL connector for A6A1 serial card

Yahoo group: Racal6790GM
Date: 2006-07-01 21:58:22 UTC
From: gewingerd@netzero.com
Topic: 449 Message: 456

I still have the new replacement FET IC Cards for the mixer, they are $100.00 each per kit and $10.00 for the shipping to anywhere in the USA.

Thanks,
Gary

457. 6790 Display Removal

Yahoo group: Racal6790GM
Date: 2006-07-12 17:27:12 UTC
From: alklase
Topic: 457 Message: 457

Hello to the group, this is my first post.

I'm currently working my way through a stack of 6790GM's, and would like to "mix-n-match" the LCD's. Is there a safe way to remove them from the sockets? (I broke a display in a 6793 a few years back when I thought I was being careful.)

Regards,
Al

458. A7 Module Repair

Yahoo group: Racal6790GM
Date: 2006-07-12 17:29:34 UTC
From: alklase
Topic: 458 Message: 458

Does anyone have a strategy for troubleshooting A7's? I'm waist deep
in defewctive synths.

Regards,
Al

459. RE: [Racal6790GM] A7 Module Repair

Yahoo group: Racal6790GM
Date: 2006-07-12 18:36:58 UTC
From: Carcia, Francis A HS
Topic: 458 Message: 459

I would start at the phase detector and see what the frequency if any is being fed to both inputs.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of alklase
Sent: Wednesday, July 12, 2006 1:30 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] A7 Module Repair

Does anyone have a strategy for troubleshooting A7's? I'm waist deep in defewctive synths.

Regards,
Al

[Non-text portions of this message have been removed]

460. Re: [Racal6790GM] 6790 Display Removal

Yahoo group: Racal6790GM
Date: 2006-07-12 20:38:43 UTC
From: Dan Rae
Topic: 457 Message: 460

alklase wrote:

>I'm currently working my way through a stack of 6790GM's, and would
>like to "mix-n-match" the LCD's. Is there a safe way to remove them
>from the sockets?
>
Al, for removing the similar, but even harder to get at displays in the RA1792 receivers, I made a pair of pullers from the steel covers that go over unused computer slots. If you cut down the short bit of the bottom of the "L" to about 3 mm and stick a short length of thin foam rubber to the inside, you end up with about the gentlest tool possible for this job. Gentle pressure at each end / corner in turn will usually do it.

Of course if you have a good display in place, then I'm not sure why you would want to remove it, but it's your radio...

As to A7 boards, it's much more likely that you have trouble with the A6A2 board I'd have thought, my experience has been about 10 to 1 in favor of the cpu board, particularly the RAMs. I had one CMOS latch die, and that's about it, apart from alignment issues. But as Francis says the phase detector is the first place to look for clues if the output is incorrect. I'm assuming you have the ECL supply voltage set as per the manual. Setting the VCO core can be a bit tricky in some cases, I've found that the thing needs to be warmed up well before setting the core at the LF end.

Good luck,
Dan
ac6ao / g3ncr

461. Re: 6790 Display Removal

Yahoo group: Racal6790GM
Date: 2006-07-12 23:02:07 UTC
From: bigmacinplano
Topic: 457 Message: 461

I have not worked on any 6790s for couple years now, however I use to do many of the displays and found first use a little WD40 along the pin/socket area and let sit for hour or so. Next I used a small scribe and push it between the pins on the display. Little on one end and then little on other end etc etc. Then it will just pop out..never lost a one. You can also use a small jewely screwdriver or a large needle if you don't have a scribe. What you want is a taper on something that is about dia. of the space of the pins.
Richard K5WOR

462. RE: [Racal6790GM] A7 Module Repair

Yahoo group: Racal6790GM
Date: 2006-07-13 01:22:28 UTC
From: gewingerd@netzero.net
Topic: 458 Message: 462

I will be home in a couple of days and I will send you my short cuts.

Thanks,
Gary

463. Re: [Racal6790GM] 6790 Display Removal

Yahoo group: Racal6790GM
Date: 2006-07-13 01:21:20 UTC
From: gewingerd@netzero.net
Topic: 457 Message: 463

I use the end of a 1" paint brush to remove the displays, this keeps
the displays from cracking.

Thanks,
Gary

464. Re: 6790 Display Removal

Yahoo group: Racal6790GM
Date: 2006-07-14 02:31:32 UTC
From: alklase
Topic: 457 Message: 464

Success!

I lifted each corner in turn (Dan) with the handle of a 1" paint brush
(Gary) after applying WD-40 (Richard).

Thanks guys,

Al

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> I use the end of a 1" paint brush to remove the displays, this keeps
> the displays from cracking.
>
> Thanks,
> Gary
>

465. Re: [Racal6790GM] A7 Module Repair

Yahoo group: Racal6790GM
Date: 2006-07-16 20:29:42 UTC
From: gewingerd@netzero.com
Topic: 458 Message: 465

A7 Troubleshooting

The A7 card +20 volts goes to the following items on the A7 card;
A7C4, A7C12, A7C13, A7C35, A7C96, A7R83, A7U37 PIN 9, A7U36 PIN 13,
A7U40 PIN 7 & A7Q10 COLLECTOR.
A7 card 13 ohm short on +20 volt line, C13 7 ohm short.

A7 card frequency low by 5 KHz, A7U18 (CD40174BE) defective.

A7 card frequency high by 25 KHz, A7U7 (CD4070BE) defective.

A7 card frequency low by 75 KHz, A7U7 (CD4070BE) defective.

A7 Card frequency off by 20 MHz, front panel .744 MHz frequency out
is high by 20 MHz, A7U14 (CD4094BE) defective.

A7 card Error 01, card is OOL, Frequency is 36 MHz all the time,
A7U27 (11C90 or SP8680B) defective.

A7 card frequency high by 1 KHz, A7U15 (N82S83N or 74F583N) defective.

A7 card frequency low by 125 KHz, A7U1 (CD4001BE) defective.

A7 card frequency LSB 1HZ BAD 2nd Bit, this would cause the filters
to not run correctly when BITE was run, A7U8 (CD4094BE) defective.

A7 card frequency appears to be correct on whole frequency however
when filters are run during BITE numbers are 9.7, 9.9 for the
narrowest filters. A7U15 (N82S83N or 74F583N) defective.

A7 card Error 01, card is OOL, Frequency is 36 MHz all the time, R72
10 ohm resistor broken in half, this is the 1 MHz reference to the
dividers.

A7 card off frequency, low by 50 KHz, A7U18 (CD40174BE) defective.

A7 card off frequency, low by 311 KHz A7U18 (CD40174BE) & A7U13
(CD4094BE) defective. Same card Error 23 on BITE, 1KHz bit location
bad, A7U11 (CD4094BE) defective.
Important note on the A7 card
A7U8 1 HZ BIT LSB
A7U9 10HZ BIT
A7U10 100HZ BIT
A7U11 1KHZ BIT
A7U12 10KHZ BIT
A7U13 100KHZ BIT

Error 03
No Data, Clock or strobe to the A7 Card. Replaced U64 on the A7 card, no pulse to U56 and U57.

Error 03

Defective A7 card.

Blank Front Panel, no +15 Vdc from Power Supply
Problem is the caps on the A8 Card (1 Ohm to ground), replaced all caps on A8 card, 2 were bad out of 6, Unit now has no +15 VDC to the A8 card, Bad Ribbon Cable Assy (yes they do go bad).

A7 card off frequency, the 10Hz and 100Hz bits are bad, replaced A7U9 (CD4094BE) defective and A7U10 (CD4094BE) defective.

Thanks,
Gary

466. LF A2 board

Yahoo group: Racal6790GM
Date: 2006-07-17 16:33:08 UTC
From: pidxr
Topic: 466 Message: 466

Hi All,

I'm doing a little fishing here. I am looking for the LF-version of
the A2 board for the RA6790/GM. Anyone out there have one available?
Please contact me off the list.

Thanks very much.

Mike, K7PI
Mercer Island, WA
bipi@...

467. Racal6790GM-unsubscribe@yahoogroups.com

Yahoo group: Racal6790GM
Date: 2006-07-16 09:15:14 UTC
From: ptapon217
Topic: 448 Message: 467

Racal6790GM-unsubscribe@yahoogroups.com

468. RA6793A manual?

Yahoo group: Racal6790GM
Date: 2006-07-17 20:26:19 UTC
From: Marco
Topic: 364 Message: 468

Hi all,

I'm still searching for op/svc manuals for Racal RA6793A. In
particular, I need the schematic of the keyboard. Mine ignores the
BFO key - it seems that keys are hall-effect devices, diffrent from
the simple NO contacts used in the RA1792 (I have plenty of them). Any help?

Vy 73 - Marco IK1ODO

469. Re: [Racal6790GM] LF A2 board

Yahoo group: Racal6790GM
Date: 2006-07-20 13:29:20 UTC
From: oscar873@aol.com
Topic: 466 Message: 469

Do u have a manual for the LF version with the 2 N connecters on the back?
Al

-----Original Message-----
From: bipi@...
To: Racal6790GM@yahoogroups.com
Sent: Mon, 17 Jul 2006 9:33 AM
Subject: [Racal6790GM] LF A2 board

Hi All,

I'm doing a little fishing here. I am looking for the LF-version of
the A2 board for the RA6790/GM. Anyone out there have one available?
Please contact me off the list.

Thanks very much.

Mike, K7PI
Mercer Island, WA
bipi@...

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demand. Always Free.

[Non-text portions of this message have been removed]

470. Re: [Racal6790GM] LF A2 board

Yahoo group: Racal6790GM
Date: 2006-07-20 18:41:58 UTC
From: gewingerd@netzero.com
Topic: 466 Message: 470

Al,

The unit could be a RA6790/GM-AD12, this unit uses a Dual Antenna Switch Circuit 4100140-501 and has the 8966-3 1st mixer card which is a low frequency version and also the 9050-2 2nd mixer assemble. The unit has special software 1600043, the A2 card uses a 10KHz filter instead of the 20 KHz standard filter. The addendum manual has parts list, schematics and layouts for the different cards. It also tells the functions of each of the cards installed.
I have the addendum manual which is used in conjunction with the standard manual. I can get the manual copied for $35.00 plus shipping, if you need a RA6790/GM manual I have some for $65.00 a manual plus shipping.
Thanks,
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733
gewingerd@...

471. Re: [Racal6790GM] LF A2 board

Yahoo group: Racal6790GM
Date: 2006-07-20 18:53:28 UTC
From: gewingerd@netzero.com
Topic: 466 Message: 471

Al,

The unit could be a RA6790/GM-AD12, this unit uses a Dual Antenna Switch Circuit 4100140-501 and has the 8966-3 1st mixer card which is a low frequency version and also the 9050-2 2nd mixer assemble. The unit has special software 1600043, the A3 card uses a 10KHz filter instead of the 20 KHz standard filter. The addendum manual has parts list, schematics and layouts for the different cards. It also tells the functions of each of the cards installed.
I have the addendum manual which is used in conjunction with the standard manual. I can get the manual copied for $35.00 plus shipping, if you need a RA6790/GM manual I have some for $65.00 a manual plus shipping.
Thanks,
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733
gewingerd@...

472. Re: [Racal6790GM] LF A2 board

Yahoo group: Racal6790GM
Date: 2006-07-20 21:29:17 UTC
From: bipi@comcast.net
Topic: 466 Message: 472

I'm sorry but I do not have any data for the version you describe. Sounds like Gary may be able to help you out.

Good Luck

Mike

---------- Original message ----------
From: oscar873@...

> Do u have a manual for the LF version with the 2 N connecters on the back?
> Al
>
> -----Original Message-----
> From: bipi@...
> To: Racal6790GM@yahoogroups.com
> Sent: Mon, 17 Jul 2006 9:33 AM
> Subject: [Racal6790GM] LF A2 board
>
>
> Hi All,
>
> I'm doing a little fishing here. I am looking for the LF-version of
> the A2 board for the RA6790/GM. Anyone out there have one available?
> Please contact me off the list.
>
> Thanks very much.
>
> Mike, K7PI
> Mercer Island, WA
> bipi@...
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> _____
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[Non-text portions of this message have been removed]

473. Re: [Racal6790GM] LF A2 board

Yahoo group: Racal6790GM
Date: 2006-07-21 14:14:31 UTC
From: gewingerd@netzero.com
Topic: 466 Message: 473

I have attached a copy of RA6790/GM Configurations, it is in MS Excel.
This is just some of the basic configurations, there are a whole lot
more more.

Thanks,
Gary

[Non-text portions of this message have been removed]

474. Re: [Racal6790GM] LF A2 board

Yahoo group: Racal6790GM
Date: 2006-07-21 19:06:14 UTC
From: oscar873@aol.com
Topic: 466 Message: 474

Gary,
How can I see the attachment?
Al

-----Original Message-----
From: gewingerd@...
To: Racal6790GM@yahoogroups.com
Sent: Fri, 21 Jul 2006 7:14 AM
Subject: Re: [Racal6790GM] LF A2 board

I have attached a copy of RA6790/GM Configurations, it is in MS Excel.
This is just some of the basic configurations, there are a whole lot
more more.

Thanks,
Gary

[Non-text portions of this message have been removed]

Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on
demand. Always Free.

[Non-text portions of this message have been removed]

475. Re: LF A2 board

Yahoo group: Racal6790GM
Date: 2006-07-22 04:37:38 UTC
From: pidxr
Topic: 466 Message: 475

Gary sent me the Excel file attachment in an e-mail and I have posted it on my Web page. You can view it by going to the page (using the link below) and clicking on the "Configurations" link. You can also save it to your computer by right-clicking this same link and use the "save target as" option. Thanks to Gary for sharing this information with the group!

http://home.comcast.net/~bipi/racal.html

Mike, K7PI

--- In Racal6790GM@yahoogroups.com, oscar873@... wrote:
>
> Gary,
> How can I see the attachment?
> Al
>
>
> -----Original Message-----
> From: gewingerd@...
> To: Racal6790GM@yahoogroups.com
> Sent: Fri, 21 Jul 2006 7:14 AM
> Subject: Re: [Racal6790GM] LF A2 board
>
>
> I have attached a copy of RA6790/GM Configurations, it is in MS
Excel.
> This is just some of the basic configurations, there are a whole
lot
> more more.
>
> Thanks,
> Gary
>
> [Non-text portions of this message have been removed]
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--
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
>
> [Non-text portions of this message have been removed]

>

476. New file uploaded to Racal6790GM

Yahoo group: Racal6790GM
Date: 2006-07-23 01:55:53 UTC
From: Racal6790GM@yahoogroups.com
Topic: 168 Message: 476

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the Racal6790GM
group.

File : /Copy of RA6790GM CONFIGURATIONS.xls
Uploaded by : gewingerd <gewingerd@...>
Description : RA6790/GM Configurations

You can access this file at the URL:
http://groups.yahoo.com/group/Racal6790GM/files/Copy%20of%20RA6790GM%20CONFIGURATIONS.xls

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

gewingerd <gewingerd@...>

478. Spectrum Display

Yahoo group: Racal6790GM
Date: 2006-09-19 21:30:13 UTC
From: daveinbham@aol.com
Topic: 478 Message: 478

To the 455kHz, yes.
To the 45.455 mHz, no.
There is a 6790 on Ebay now with a SDU hooked up to the 45.455 mHz.
Item # 170029609505
The display on this one looks a lot more useful than I got from the 455 kHz.

Maybe we should ask him how he did it .

Kindest regards,
Dave

Has anyone hooked up a spectrum display unit to the racal 6790gm?

[Non-text portions of this message have been removed]

479. Re: Spectrum Display

Yahoo group: Racal6790GM
Date: 2006-09-24 11:44:12 UTC
From: Graham
Topic: 478 Message: 479

The device is displaying the signal , 'ae' mixer side . of the
roofing filter ... may be no the best place to alter the cct - a good
chance of degrading the rx performance ?

G ..

--- In Racal6790GM@yahoogroups.com, daveinbham@... wrote:
>
>
> To the 455kHz, yes.
> To the 45.455 mHz, no.
> There is a 6790 on Ebay now with a SDU hooked up to the 45.455
mHz.
> Item # 170029609505
> The display on this one looks a lot more useful than I got from the
455 kHz.
>
> Maybe we should ask him how he did it .
>
> Kindest regards,
> Dave
>
>
> Has anyone hooked up a spectrum display unit to the racal 6790gm?
>
>
>
>
> [Non-text portions of this message have been removed]
>

480. Re: [Racal6790GM] Re: Spectrum Display

Yahoo group: Racal6790GM
Date: 2006-09-25 08:13:58 UTC
From: gandalfg8@aol.com
Topic: 478 Message: 480

In a message dated 25/09/2006 08:52:15 GMT Daylight Time, g0nbd@...
writes:

The device is displaying the signal , 'ae' mixer side . of the
roofing filter ... may be no the best place to alter the cct - a good
chance of degrading the rx performance ?

It does state that only a single pick off connection is made so not much of
an "alteration".
As long as the following mixer input is buffered and reasonably high
impedance it shouldn't have any effect on the receiver.

regards

Nigel
GM8PZR

[Non-text portions of this message have been removed]

481. remote cable

Yahoo group: Racal6790GM
Date: 2006-09-18 19:07:36 UTC
From: rkeele11
Topic: 481 Message: 481

Does anyone have a extra remote cable for the 6790gm, or have access to making one up? I will pay a resonable price for one or to have one built.

482. Re: 26-pin MIL connector for A6A1 serial card

Yahoo group: Racal6790GM
Date: 2006-10-04 09:53:35 UTC
From: philgievres
Topic: 449 Message: 482

--- In Racal6790GM@yahoogroups.com, "pidxr" <bipi@...> wrote:
>
> Can anyone help me find the 26-pin MIL connector, MC3723-02R-1626N
for
> the serial data port on the RA6790/GM. Anyone know the equivalent
> Amphenol product number?
>
> Thanks
>

Hello, for my receiver i am changed the connector. I replace by amphenol standard db25. It is very easy because jus cut the cable near old connector, sold to db25 fem, the dimension fixation for db25 (installed in vertical) is the same of fixation of 26 pin mil connector and the price is 0.1 dollar ans eaisy to make connection (adress, parity.....) if you are interested i can sending more information) best regards. PHILIPPE

483. Re: Spectrum Display

Yahoo group: Racal6790GM
Date: 2006-09-20 11:00:27 UTC
From: Graham
Topic: 478 Message: 483

Its showing spectrum mixer side of the roofing filter .... suppose
you can .. not something I would of done .. ?

(shows why a good roofing filter sets the rx 'performance level')

G ..

--- In Racal6790GM@yahoogroups.com, daveinbham@... wrote:
>
>
> To the 455kHz, yes.
> To the 45.455 mHz, no.
> There is a 6790 on Ebay now with a SDU hooked up to the 45.455
mHz.
> Item # 170029609505
> The display on this one looks a lot more useful than I got from the
455 kHz.
>
> Maybe we should ask him how he did it .
>
> Kindest regards,
> Dave
>
>
> Has anyone hooked up a spectrum display unit to the racal 6790gm?
>
>
>
>
> [Non-text portions of this message have been removed]
>

484. mil 26 pin connector

Yahoo group: Racal6790GM
Date: 2006-10-04 09:59:16 UTC
From: philgievres
Topic: 484 Message: 484

Hello, for my receiver i am changed the connector. I replace the mil connector (hard to finf it and very expensive ant delivery time) by db25 fem connector. The vertical fixation use the hole of metal plate fixation for mil connector (you can use also a plte from PC). Jus cut cable near mil connector and sold to DB25 FEM. it is more easy for strapp configuration. If you are interested i can provide schematic and photos. Best regards. Philippe

485. Re: [Racal6790GM] Re: 26-pin MIL connector for A6A1 serial card

Yahoo group: Racal6790GM
Date: 2006-10-05 00:38:59 UTC
From: Bill Turini
Topic: 449 Message: 485

I can sell you the complete data cable. My 6790/GM was lost by FedEx and
I have no use for it. I was going to put it on e-bay, but will sell is
for about cost, $30 plus shipping. Connector was $25+.

Bill

KA4GAV

> --- In Racal6790GM@yahoogroups.com, "pidxr" <bipi@...> wrote:
> >
> > Can anyone help me find the 26-pin MIL connector, MC3723-02R-1626N
> for
> > the serial data port on the RA6790/GM. Anyone know the equivalent
> > Amphenol product number?
> >
> > Thanks
> >
>
>
> Hello, for my receiver i am changed the connector. I replace by
> amphenol standard db25. It is very easy because jus cut the cable near
> old connector, sold to db25 fem, the dimension fixation for db25
> (installed in vertical) is the same of fixation of 26 pin mil
> connector and the price is 0.1 dollar ans eaisy to make connection
> (adress, parity.....) if you are interested i can sending more
> information) best regards. PHILIPPE
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486. Sorry

Yahoo group: Racal6790GM
Date: 2006-10-05 00:40:00 UTC
From: Bill Turini
Topic: 486 Message: 486

Sorry, the last post was meant to go direct.

Bill

> --- In Racal6790GM@yahoogroups.com, "pidxr" <bipi@...> wrote:
> >
> > Can anyone help me find the 26-pin MIL connector, MC3723-02R-1626N
> for
> > the serial data port on the RA6790/GM. Anyone know the equivalent
> > Amphenol product number?
> >
> > Thanks
> >
>
>
> Hello, for my receiver i am changed the connector. I replace by
> amphenol standard db25. It is very easy because jus cut the cable near
> old connector, sold to db25 fem, the dimension fixation for db25
> (installed in vertical) is the same of fixation of 26 pin mil
> connector and the price is 0.1 dollar ans eaisy to make connection
> (adress, parity.....) if you are interested i can sending more
> information) best regards. PHILIPPE
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NeoMail - http://neomail.sourceforge.net

487. Squelch circuit?

Yahoo group: Racal6790GM
Date: 2006-10-05 05:57:35 UTC
From: tony dinkel
Topic: 481 Message: 487

Anybody ever design a squelch circuit for the AM or FM modes of a 6790?
Would be nice to at least have for FM. AM and SSB would be a plus.
Motorola sure has a nice circuit that works for SSB on the Micom series of
radios. For the 6790 it seems it would be fairly simple to pick off the raw
demodulator signal and make it switch something?

td
wb6mie

488. Re: [Racal6790GM] Re: 26-pin MIL connector for A6A1 serial card

Yahoo group: Racal6790GM
Date: 2006-10-05 01:08:41 UTC
From: Leigh Sedgwick
Topic: 449 Message: 488

Thanks Bill,

I will take it...but, I'm just home from the hospital so will be outta commission for a few days...let me know what shipping will be and how you want payment.

73 de Mike
K7PI

----- Original Message -----
From: "Bill Turini" <mailing_lists@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, October 04, 2006 5:38 PM
Subject: Re: [Racal6790GM] Re: 26-pin MIL connector for A6A1 serial card

>I can sell you the complete data cable. My 6790/GM was lost by FedEx and
> I have no use for it. I was going to put it on e-bay, but will sell is
> for about cost, $30 plus shipping. Connector was $25+.
>
> Bill
>
> KA4GAV
>
>> --- In Racal6790GM@yahoogroups.com, "pidxr" <bipi@...> wrote:
>> >
>> > Can anyone help me find the 26-pin MIL connector, MC3723-02R-1626N
>> for
>> > the serial data port on the RA6790/GM. Anyone know the equivalent
>> > Amphenol product number?
>> >
>> > Thanks
>> >
>>
>>
>> Hello, for my receiver i am changed the connector. I replace by
>> amphenol standard db25. It is very easy because jus cut the cable near
>> old connector, sold to db25 fem, the dimension fixation for db25
>> (installed in vertical) is the same of fixation of 26 pin mil
>> connector and the price is 0.1 dollar ans eaisy to make connection
>> (adress, parity.....) if you are interested i can sending more
>> information) best regards. PHILIPPE
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489. Re: [Racal6790GM] Re: 26-pin MIL connector for A6A1 serial card

Yahoo group: Racal6790GM
Date: 2006-10-06 02:36:48 UTC
From: Bill Turini
Topic: 449 Message: 489

Leigh

It's yours. You were the first of MANY. Too bad I don't have more.

I'll take almost any form of payment, as long as it doesn't eat. Give me your address and I'll throw it in a bag and mail it and let you know how much it was.

No rush on it all, but we are going out of town for two weeks on the 16th. I've got your name on it.

Thanks,

Bill

> Thanks Bill,
>
> I will take it...but, I'm just home from the hospital so will be outta
> commission for a few days...let me know what shipping will be and how you
> want payment.
>
> 73 de Mike
> K7PI
>
> ----- Original Message -----
> From: "Bill Turini" <mailing_lists@...>
> To: <Racal6790GM@yahoogroups.com>
> Sent: Wednesday, October 04, 2006 5:38 PM
> Subject: Re: [Racal6790GM] Re: 26-pin MIL connector for A6A1 serial card
>
>
> >I can sell you the complete data cable. My 6790/GM was lost by FedEx and
> > I have no use for it. I was going to put it on e-bay, but will sell is
> > for about cost, $30 plus shipping. Connector was $25+.
> >
> > Bill
> >
> > KA4GAV
> >
> >> --- In Racal6790GM@yahoogroups.com, "pidxr" <bipi@...> wrote:
> >> >
> >> > Can anyone help me find the 26-pin MIL connector, MC3723-02R-1626N
> >> for
> >> > the serial data port on the RA6790/GM. Anyone know the equivalent
> >> > Amphenol product number?
> >> >

> >> > Thanks
> >> >
> >>
> >>
> >> Hello, for my receiver i am changed the connector. I replace by
> >> amphenol standard db25. It is very easy because jus cut the cable near
> >> old connector, sold to db25 fem, the dimension fixation for db25
> >> (installed in vertical) is the same of fixation of 26 pin mil
> >> connector and the price is 0.1 dollar ans eaisy to make connection
> >> (adress, parity.....) if you are interested i can sending more
> >> information) best regards. PHILIPPE
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490. Looking for Manual on cd

Yahoo group: Racal6790GM
Date: 2006-10-06 02:44:05 UTC
From: Chuck
Topic: 490 Message: 490

Greetings,
I'm new to the list and as of yet, do not own a
6790. I'm interested in obtaining a manual for the
6790GM on CD. Where can I purchase one? Thanks.

Chuck.....wa2onk

491. Re: [Racal6790GM] Re: 26-pin MIL connector for A6A1 serial card

Yahoo group: Racal6790GM
Date: 2006-10-06 14:35:19 UTC
From: Leigh Sedgwick
Topic: 449 Message: 491

Thanks very much Bill!

My info follows:

Leigh Sedgwick
3238 72nd PL SE
Mercer Island, WA 98040

I can send you a check or use Paypal (cash option).

No hurry here...any time it is convenient for you is best for me.

7s de Mike, K7PI
http://home.comcast.net/~bipi/home.html

----- Original Message -----
From: "Bill Turini" <mailing_lists@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Thursday, October 05, 2006 7:36 PM
Subject: Re: [Racal6790GM] Re: 26-pin MIL connector for A6A1 serial card

> Leigh
>
> It's yours. You were the first of MANY. Too bad I don't have more.
>
> I'll take almost any form of payment, as long as it doesn't eat. Give me
> your address and I'll throw it in a bag and mail it and let you know how
> much it was.
>
> No rush on it all, but we are going out of town for two weeks on the
> 16th. I've got your name on it.
>
> Thanks,
>
> Bill
>
>
>> Thanks Bill,
>>
>> I will take it...but, I'm just home from the hospital so will be outta
>> commission for a few days...let me know what shipping will be and how you
>> want payment.
>>
>> 73 de Mike
>> K7PI
>>
>> ----- Original Message -----

>> From: "Bill Turini" <mailing_lists@...>
>> To: <Racal6790GM@yahoogroups.com>
>> Sent: Wednesday, October 04, 2006 5:38 PM
>> Subject: Re: [Racal6790GM] Re: 26-pin MIL connector for A6A1 serial card
>>
>>
>> >I can sell you the complete data cable. My 6790/GM was lost by FedEx and
>> > I have no use for it. I was going to put it on e-bay, but will sell is
>> > for about cost, $30 plus shipping. Connector was $25+.
>> >
>> > Bill
>> >
>> > KA4GAV
>> >
>> >> --- In Racal6790GM@yahoogroups.com, "pidxr" <bipi@...> wrote:
>> >> >
>> >> > Can anyone help me find the 26-pin MIL connector, MC3723-02R-1626N
>> >> for
>> >> > the serial data port on the RA6790/GM. Anyone know the equivalent
>> >> > Amphenol product number?
>> >> >
>> >> > Thanks
>> >> >
>> >>
>> >>
>> >> Hello, for my receiver i am changed the connector. I replace by
>> >> amphenol standard db25. It is very easy because jus cut the cable near
>> >> old connector, sold to db25 fem, the dimension fixation for db25
>> >> (installed in vertical) is the same of fixation of 26 pin mil
>> >> connector and the price is 0.1 dollar ans eaisy to make connection
>> >> (adress, parity.....) if you are interested i can sending more
>> >> information) best regards. PHILIPPE
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492. Source of connector and/or ready-made cables.

Yahoo group: Racal6790GM
Date: 2006-10-07 13:04:10 UTC
From: Roderick Hart
Topic: 492 Message: 492

I thought I saw a recent posting with the URL of a source for the
cables and connector. If you have info, please send to me. Thanks!

Rod Hart
WA3MEZ
rwhart@...

493. Re: Looking for Manual on cd

Yahoo group: Racal6790GM
Date: 2006-10-07 16:38:12 UTC
From: milradman
Topic: 490 Message: 493

Chuck,
You can download the civilian manual here and burn it to CD:
http://groups.yahoo.com/group/Racal6790GM/files/
or I can send you a copy. It comes in several sections on the website.
The military manual (TM 32-5820-030-14&P)is still restricted on the
LOGSA site.
John

--- In Racal6790GM@yahoogroups.com, Chuck <wa2onk@...> wrote:
>
> Greetings,
> I'm new to the list and as of yet, do not own a
> 6790. I'm interested in obtaining a manual for the
> 6790GM on CD. Where can I purchase one? Thanks.
>
> Chuck.....wa2onk
>

494. Alignment and tuning manual

Yahoo group: Racal6790GM
Date: 2006-10-09 20:53:16 UTC
From: maxhdrm2
Topic: 494 Message: 494

Racal Group, I didn't realize that the alignment manual was missing from the files section. I have added it today. It is chapter 3 of the component repair manual. I have ommitted the first few chapters because they are only relevent if you are using the dedicated repair and test fixtures that the military used. Max

495. Re: [Racal6790GM] Re: Looking for Manual on cd

Yahoo group: Racal6790GM
Date: 2006-10-07 17:19:55 UTC
From: Chuck
Topic: 490 Message: 495

Hi John
Thanks for info. I saw a download on the bama
site, but when downloaded it was a little fuzzy.
Useable, but not real clear. I will check out the site
you sent.

Chuck.....wa2onk

--- milradman <milradman@...> wrote:

> Chuck,
> You can download the civilian manual here and burn
> it to CD:
> http://groups.yahoo.com/group/Racal6790GM/files/
> or I can send you a copy. It comes in several
> sections on the website.
> The military manual (TM 32-5820-030-14&P)is still
> restricted on the
> LOGSA site.
> John
>
> --- In Racal6790GM@yahoogroups.com, Chuck
> <wa2onk@...> wrote:
> >
> > Greetings,
> > I'm new to the list and as of yet, do not own
> a
> > 6790. I'm interested in obtaining a manual for the
> > 6790GM on CD. Where can I purchase one? Thanks.
> >
> > Chuck.....wa2onk
> >
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496. Re: information on SD5000

Yahoo group: Racal6790GM
Date: 2006-10-12 13:33:47 UTC
From: fredbassermann
Topic: 422 Message: 496

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> I have purchased 50 of the SD5000I IC chips and have had the PC Cards
> made. These kits will repair the mixer box assemble on the RA6790/GM,
> RA6793, RA6793A, RA6778, RA6778Q, RA6778C and many other RACAL
> receivers built in the USA. Certain RA6793A receivers require a
> different card and I have 25 of these built and in stock now. I will
> have the repair kit for sale for $100.00 to first come first served.
> The kit includes all parts (SD5000I IC, 2 56pf caps, 1 RAW PC Board),
> schematics, drawings and assemble instructions.
> Thanks,
> Gary E. Wingerd
> 9107 Jordan Rd.
> Fairplay, MD 21733
>
Do you have any of the SD5000I available?

Fred VE2BQF

497. Re: [Racal6790GM] Re: information on SD5000

Yahoo group: Racal6790GM
Date: 2006-10-13 09:31:25 UTC
From: gewingerd@netzero.net
Topic: 422 Message: 497

Fred,

Yes @ $52.00 each plus shipping and handling.

Gary

498. Adaptor to fit standard filter to rx ?

Yahoo group: Racal6790GM
Date: 2006-10-21 16:47:40 UTC
From: Graham
Topic: 498 Message: 498

Adaptor to fit standard filter to rx ?

I've two 455 KHz xtal filters by ITT one 2.7 KHz USB and the matching 2.7 KHz LSB , size 1 inch square x 2 3/4 inch long (possibly from racal 1792)two pin and two stud fixing

I seem to remember some posts about a firm making filters and selling pcb adaptors to fit the rx ?

anyone any info ?

Tnx

Graham .

499. Re: [Racal6790GM] Adaptor to fit standard filter to rx ?

Yahoo group: Racal6790GM
Date: 2006-10-21 22:12:20 UTC
From: gewingerd@netzero.com
Topic: 498 Message: 499

Sherwood engineering makes filters and they install them on adapter plates that fit the receiver, you might try them.

Thanks,
Gary

500. Re: [Racal6790GM] Adaptor to fit standard filter to rx ?

Yahoo group: Racal6790GM
Date: 2006-10-21 22:56:43 UTC
From: Dan Rae
Topic: 498 Message: 500

Graham wrote:

>Adaptor to fit standard filter to rx ?
>
>
>I've two 455 KHz xtal filters by ITT one 2.7 KHz USB and the matching
>2.7 KHz LSB , size 1 inch square x 2 3/4 inch long (possibly from
>racal 1792)two pin and two stud fixing
>
>
>
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>

If they are indeed from the RA1792 then the footprint is exactly the same and they can be fitted directly to the 6790/GM by unsoldering and removing the bigger two of the sockets. The IF boards on both are similar. Only if you insist on them being plug in, will you need some kind of adaptor. Just ensure that the terminating capacitors, usually 47 pF in the 1792 for all the STC filters, are fitted, in the holes thoughtfully provided. If you hang on to the removed sockets, then the surgery will be easily reversible, should you so wish in the future.

73
Dan
ac6ao / g3ncr

501. Re: Adaptor to fit standard filter to rx ?

Yahoo group: Racal6790GM
Date: 2006-10-22 14:10:25 UTC
From: Graham
Topic: 498 Message: 501

Ok

Many thank's Gary,

im in contact with them.

Graham .

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...>
wrote:
>
> Sherwood engineering makes filters and they install them on adapter
> plates that fit the receiver, you might try them.
>
> Thanks,
> Gary
>

502. Re: Adaptor to fit standard filter to rx ?

Yahoo group: Racal6790GM
Date: 2006-10-22 14:05:37 UTC
From: Graham
Topic: 498 Message: 502

Ok

Tnx for that and the filters where supplied with qty 2 47pf caps .so looks like so far so good . take it these shunt the input/output pins - ie signal > earth -

Ill have a look at removing the holders ... but in the day job ive a store room with 25 yeras usage of spares to call on .. all ive got out back here is a green house :-) ... but its worth a look ...

Many thanks for the info

Graham .

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> Graham wrote:
>
> >Adaptor to fit standard filter to rx ?
> >
> >
> >I've two 455 KHz xtal filters by ITT one 2.7 KHz USB and the matching
> >2.7 KHz LSB , size 1 inch square x 2 3/4 inch long (possibly from
> >racal 1792)two pin and two stud fixing
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> >
> If they are indeed from the RA1792 then the footprint is exactly the
> same and they can be fitted directly to the 6790/GM by unsoldering and
> removing the bigger two of the sockets. The IF boards on both are
> similar. Only if you insist on them being plug in, will you need some
> kind of adaptor. Just ensure that the terminating capacitors, usually
> 47 pF in the 1792 for all the STC filters, are fitted, in the holes
> thoughtfully provided. If you hang on to the removed sockets, then the
> surgery will be easily reversible, should you so wish in the future.
>

> 73
> Dan
> ac6ao / g3ncr
>

503. Rx performance at VLH with pre-amp fitted

Yahoo group: Racal6790GM
Date: 2006-10-23 21:40:21 UTC
From: Graham
Topic: 503 Message: 503

Rx performance at VLH with pre-amp fitted

Any info on pre-amp performance at 'VLF' ? ie down to 10 khz ?

Ive the vlf front end fitted to the rx , before I fit the pre-amp
(means removing and replacing the rear panel assy !!) has anyone run
this configuration ?

Tnx - Graham

504. Filter Questions

Yahoo group: Racal6790GM
Date: 2006-10-27 23:45:34 UTC
From: radioman762
Topic: 504 Message: 504

I have a 6790/GM that I have never really opened up -- at least to the point of looking at the filters, so please forgive me if this is a stupid question.

The narrowest filter I have is 1.6 KHz -- not exactly the best for CW. I have a chance to pick up a cheap, dead, 6790/GM (microprocessor problems) that has a better filter selection. However, I am told that these are soldered in rather than plugged in.

I don't know whether my existing unit has soldered filters or plug in filters. If it is the latter, is it possible to install one of the soldered in filters from the dead radio without making an adapter board? Put differently, does the 6790 accept both types? I don't insist that the filters be plug-in. I just want to replace the 20 KHz filter with a .3 or .5 filter.

Thanks.

Fred Bray
W6WAW

505. Re: [Racal6790GM] Filter Questions

Yahoo group: Racal6790GM
Date: 2006-10-28 02:06:57 UTC
From: toddroberts2001@aol.com
Topic: 504 Message: 505

In a message dated 10/27/2006 9:27:51 PM Eastern Standard Time,
fwbray@... writes:
I don't know whether my existing unit has soldered filters or plug in
filters. If it is the latter, is it possible to install one of the
soldered in filters from the dead radio without making an adapter
board? Put differently, does the 6790 accept both types? I don't
insist that the filters be plug-in. I just want to replace the 20 KHz
filter with a .3 or .5 filter.

Thanks.

Fred Bray
W6WAW

Have you looked under the main top cover yet? Does it have a metal box cover
on the left-hand side of the large I.F. circuit board that goes across the
middle of the chassis? If it has a metal cover box then it probably has the
larger size crystal plug-in filters inside, or the filters could be out in the open
if there is no cover box. The plug-in crystal filters are silver, shiny
looking metal boxes about 1 inch wide by a little over 2 inches high and about 3
inches long. The solder-in type filters are usually small, blue-colored
rectangular Collins mechanical filters. The main I.F. circuit board will accept
both types of filters, however the small blue Collins filters also require
soldering in two resonating capacitors, one on each end of the filter. Holes are
provided in the circuit board to mount the capacitors also. You need to install
the correct resonating capacitors for each individual Collins filter. The
correct capacitors should be on the circuit board with the solder-in filters next
to the filters.
Unless you are familiar with the receivers and are able to remove the
IF boards, unsolder the filter and resonating capacitors from one receiver and
resolder them into your receiver, it would be easier and more convenient to
find another plug-in filter in a narrow cw bandwidth if the plug-in filters
are the type your receiver uses. 6790 filters turn up on eBay from time to time
or I am sure there is someone in the list who can steer you to a plug-in cw
filter. Gary Wingerd may have some in stock. 73 Todd WD4NGG

506. RA3712 Bandwidth settings

Yahoo group: Racal6790GM
Date: 2006-10-28 16:33:16 UTC
From: Mick
Topic: 506 Message: 506

Hi,

Sorry, this is a RA 3712 question.

I cleaned my RA3701 by removing all the units, cleaning with IPA and then replacing. Unfortunately when I replaced the processor unit the dil switches were not in the correct position. I powered the unit up and it mentioned signatures, I then powered down and placed the dil switches in the correct position. All is now well except I cannot alter any bandwidth settings or when I try to select passband tuning it says no bandwidths available.

If I select BW from the menu system the unit asks for a security code, which I do not know.

Does anyone have any ideas how I can restore the unit to respond to bandwidth changes?

Mick

507. Re: RA3712 Bandwidth settings

Yahoo group: Racal6790GM
Date: 2006-11-01 22:07:54 UTC
From: Mick
Topic: 506 Message: 507

Problem solved.

Thanks anyway.

Mick

--- In Racal6790GM@yahoogroups.com, "Mick" <mickhannam@...> wrote:
>
> Hi,
>
> Sorry, this is a RA 3712 question.
>
> I cleaned my RA3701 by removing all the units, cleaning with IPA and
> then replacing. Unfortunately when I replaced the processor unit the
> dil switches were not in the correct position. I powered the unit up
> and it mentioned signatures, I then powered down and placed the dil
> switches in the correct position. All is now well except I cannot
> alter any bandwidth settings or when I try to select passband tuning
> it says no bandwidths available.
>
> If I select BW from the menu system the unit asks for a security code,
> which I do not know.
>
> Does anyone have any ideas how I can restore the unit to respond to
> bandwidth changes?
>
> Mick
>

508. 26 pins femal connector with cabel.

Yahoo group: Racal6790GM
Date: 2006-11-03 20:02:45 UTC
From: hns_r
Topic: 508 Message: 508

Hello,
Today after a long time I have find a Racal 6790/GM.
It works well, but I am looking for the interface cabel.
Complete with connector M83723-13R-1626M (Racalno;61092) and cabel.
Maby it's a problem but the optional ISB A5 is also on mine list for
most wanted. Thanks anyway, Hans.

509. RA6790GM V RA1772 ?

Yahoo group: Racal6790GM
Date: 2006-11-05 22:42:13 UTC
From: Graham
Topic: 509 Message: 509

Appart from the cpu functions of the 6790 , has anyone experiance of the RF performance of the 1772 compared to the 6790 ?

G .

510. (no subject)

Yahoo group: Racal6790GM
Date: 2006-11-07 19:44:55 UTC
From: gewingerd@netzero.com
Topic: 510 Message: 510

USB & LSB Filters for the RACAL RA6790/GM are 7883-5 and 7883-6. These require a 270 pF cap across the input and a 240 pF cap across the output.

I just ran across a receiver with Collins 526-9897-010 LSB and 526-9939-010 USB. The receiver had an ERROR 08 on BITE and an ERROR 22 on BITE. The receiver did not have any caps across the input or output of the filters, the ripple was over 12dB in-band. I installed 500pf caps at the input and output and the ripple is less than 1 dB and the insertion loss is only about 2 dB. These filters are out there on the web and can be used in the RACAL receivers.

2.7k ohm in/out impedance. Upper side band. 3 dB BW = 2.1 kc. 60 dB BW = 6.25 kc. 0.7" wide x 1" high x 2.78" long

Thanks,
Gary

511. Re: [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2006-11-07 20:58:11 UTC
From: FRANCIS CARCIA
Topic: 510 Message: 511

http://www.wa3key.com/filters.html

Those filters are 1.95 KHz and in the link above. I don't see the cap value required but heck if they work....go for it. fc

"gewingerd@..." <gewingerd@...> wrote:
USB & LSB Filters for the RACAL RA6790/GM are 7883-5 and 7883-6.
These require a 270 pF cap across the input and a 240 pF cap across
the output.

I just ran across a receiver with Collins 526-9897-010 LSB and 526-
9939-010 USB. The receiver had an ERROR 08 on BITE and an ERROR 22 on
BITE. The receiver did not have any caps across the input or output
of the filters, the ripple was over 12dB in-band. I installed 500pf
caps at the input and output and the ripple is less than 1 dB and the
insertion loss is only about 2 dB. These filters are out there on the
web and can be used in the RACAL receivers.

2.7k ohm in/out impedance. Upper side band. 3 dB BW = 2.1 kc. 60 dB
BW = 6.25 kc. 0.7" wide x 1" high x 2.78" long

Thanks,
Gary

[Non-text portions of this message have been removed]

512. SDR

Yahoo group: Racal6790GM
Date: 2006-11-08 13:21:48 UTC
From: FRANCIS CARCIA
Topic: 510 Message: 512

Hi All,
All you 6790 drivers. Last winter I built a I/Q converter to hang off the 455 KHz IF of my RA6830 (6790's younger brother) Anyway now I can use the Racal as a front end for SDR. I use I2PHD software that includes a nice spectrum display. Flex software will also work. There are a couple other free ones "rocky" for one. I built my board as a plug in module at a cost of over $100.
There is a yahoogroup "softrock40" They are selling a little kit softrock 6 for $14 that does the same thing. All you have to do is reduce the gain of the two opamps and put a 3 resistor pad on the input replacing the input filter.
The board is about 2 by 3 inches.
This is a cool way to play with SDR with the front end performance of the Racal.
Frank WA1GFZ

[Non-text portions of this message have been removed]

513. Re: SDR

Yahoo group: Racal6790GM
Date: 2006-11-09 18:15:22 UTC
From: Graham
Topic: 510 Message: 513

Looks like you could just use the rx set to 19Khz bw - bfo one side or the other and just feed the 20 khz audio base band to the sound card direct ?

G ..

--- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
> Hi All,
> All you 6790 drivers. Last winter I built a I/Q converter to hang off the 455 KHz IF of my RA6830 (6790's younger brother) Anyway now I can use the Racal as a front end for SDR. I use I2PHD software that includes a nice spectrum display. Flex software will also work. There are a couple other free ones "rocky" for one. I built my board as a plug in module at a cost of over $100.
> There is a yahoogroup "softrock40" They are selling a little kit softrock 6 for $14 that does the same thing. All you have to do is reduce the gain of the two opamps and put a 3 resistor pad on the input replacing the input filter.
> The board is about 2 by 3 inches.
> This is a cool way to play with SDR with the front end performance of the Racal.
> Frank WA1GFZ
>
>
> [Non-text portions of this message have been removed]
>

514. RA6790GM Remote control interface

Yahoo group: Racal6790GM
Date: 2006-11-09 23:32:24 UTC
From: pierres001
Topic: 509 Message: 514

Hi,
I would like to know how to use the remote via a pc computer.
If somebody knows, please let me know which software I need.
And also, I am looking for A6A1W1J1 remote control interface
connector (round connector). Where I can find that connector?
tnx in advance 73' Pierre

515. Re: RA6790GM Remote control interface

Yahoo group: Racal6790GM
Date: 2006-11-10 18:00:23 UTC
From: Graham
Topic: 509 Message: 515

--- In Racal6790GM@yahoogroups.com, "pierres001" <pierres001@...>
wrote:
>
> Hi,
> I would like to know how to use the remote via a pc computer.
> If somebody knows, please let me know which software I need.
> And also, I am looking for A6A1W1J1 remote control interface
> connector (round connector). Where I can find that connector?
> tnx in advance 73' Pierre
>

..... After moving hevan and earth to find a plug and the cable
clamp ... when I came to make the cable .. was supprised to find it
only uses 2 wires and a earth ... for the sake of a 1/4 inch hole and
a
lemo or similar connector .. you could be up and running ! ...

from memory .. there is a link that needs to be set on the cpu
board .. ?

Think there is a link to software on this site, there are a couple of
prog's that will interface with the rx - web serch will find them

G ..

516. RE: [Racal6790GM] Re: RA6790GM Remote control interface

Yahoo group: Racal6790GM
Date: 2006-11-10 19:30:51 UTC
From: tony dinkel
Topic: 509 Message: 516

Seems to me Procomm or Hyperterm would be fine for no frills command line entry. And you need to set the board for RS-232 commercial serial, not the rt-171 military mode.

For the purist (if) you could get the big connector and wire a db-9 so it hangs out of it. At one time I had considered fabricating a plate for a db-9 that matched the round hole, wiring only the serial pins, covering the wires I would never need in heat shrink and tywraping them to something inside the radio.

Question for the group...when using the internal speaker amplifier, does the volume control ever turn all the way down? I understand why it would be designed to not go all the way down but should it? I may have a grounding problem ?

td

>From: "Graham" <g0nbd@...>
>Reply-To: Racal6790GM@yahoogroups.com
>To: Racal6790GM@yahoogroups.com
>Subject: [Racal6790GM] Re: RA6790GM Remote control interface
>Date: Fri, 10 Nov 2006 18:00:23 -0000
>
>--- In Racal6790GM@yahoogroups.com, "pierres001" <pierres001@...>
>wrote:
> >
> > Hi,
> > I would like to know how to use the remote via a pc computer.
> > If somebody knows, please let me know which software I need.
> > And also, I am looking for A6A1W1J1 remote control interface
> > connector (round connector). Where I can find that connector?
> > tnx in advance 73' Pierre
> >
>
>..... After moving hevan and earth to find a plug and the cable
>clamp ... when I came to make the cable .. was supprised to find it
>only uses 2 wires and a earth ... for the sake of a 1/4 inch hole and
>a
>lemo or similar connector .. you could be up and running ! ...
>
>from memory .. there is a link that needs to be set on the cpu
>board .. ?
>
>Think there is a link to software on this site, there are a couple of
>prog's that will interface with the rx - web serch will find them
>

>G ..
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>
>Yahoo! Groups Links
>
>
>
>

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e.com/?sc_cid=msn_hotmail

517. Fw: Schroff cabinet.

Yahoo group: Racal6790GM
Date: 2006-11-11 20:37:45 UTC
From: maxhdrm2
Topic: 517 Message: 517

----- Original Message -----
From: "hns_r" <hns_r@...>
To: <maxhdrm2@...>
Sent: Saturday, November 11, 2006 3:04 PM
Subject: Schroff cabinet.

Hello,
Can you give me information about the Schroff cabinet.
Typenumber, and were I can buy it.
Thanks any way.
Hans.

518. Schroff cabinet

Yahoo group: Racal6790GM
Date: 2006-11-12 13:49:58 UTC
From: Keith Grünberger
Topic: 518 Message: 518

Hi @ all!

I think the partnumber is 10225-623!

Have a look on www.schroff.de <http://www.schroff.de/>

I□m thinking of buying one.

Anyone interested in joining?

Still waiting for a quote.

I□ll let you know what the price would be!

Regards

Keith

-----Ursprüngliche Nachricht-----
Von: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Gesendet: Sonntag, 12. November 2006 12:14
An: Racal6790GM@yahoogroups.com
Betreff: [Racal6790GM] Digest Number 217

<http://groups.yahoo.com/group/Racal6790GM;_ylc=X3oDMTJkZjI2NW1uBF9TAzk3
MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNoZHIEc2xrA2hw
aARzdGltZQMxMTYzMzMwMDY4> Racal 6790/GM

Messages In This Digest (1 Message)

1.

Fw: Schroff cabinet. From: maxhdrm2

<http://groups.yahoo.com/group/Racal6790GM/messages;_ylc=X3oDMTJmMW9tYjQ
5BF9TAzk3MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNkbXN
nBHNsawNhdHBjBHN0aW1lAzExNjMzMzAwNjk-?xm=1&m=p&tidx=1> View All Topics |
<http://groups.yahoo.com/group/Racal6790GM/post;_ylc=X3oDMTJmY3JhZzA0BF9
TAzk3MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNkbXNnBHN
sawNudHBjBHN0aW1lAzExNjMzMzAwNjk-> Create New Topic

Message

1.

<http://groups.yahoo.com/group/Racal6790GM/message/517;_ylc=X3oDMTJwbmli
NXN1BF9TAzk3MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BG1zZ0lk
AzUxNwRzZWMDZG1zZwRzbGsDdm1zZwRzdGltZQMxMTYzMzMwMDY5> Fw: Schroff
cabinet.

Posted by: "maxhdrm2"
<mailto:maxhdrm2@...?Subject=%20Re%3AFw%3A%20Schroff%20cabinet%2
E> maxhdrm2@... <http://profiles.yahoo.com/maxhdrm2> maxhdrm2

Sat Nov 11, 2006 1:32 pm (PST)

----- Original Message -----
From: "hns_r" < <mailto:hns_r%40yahoo.co.uk> hns_r@...>
To: < <mailto:maxhdrm2%40comcast.net> maxhdrm2@comcast.net>
Sent: Saturday, November 11, 2006 3:04 PM
Subject: Schroff cabinet.

Hello,
Can you give me information about the Schroff cabinet.
Typenumber, and were I can buy it.
Thanks any way.
Hans.

Back to top

<mailto:maxhdrm2@...?Subject=Re%3AFw%3A%20Schroff%20cabinet%2E>
Reply to sender |
<mailto:Racal6790GM@yahoogroups.com?Subject=%20Re%3AFw%3A%20Schroff%20ca
binet%2E> Reply to group |
<http://groups.yahoo.com/group/Racal6790GM/post;_ylc=X3oDMTJwYmR0bnRxBF9
TAzk3MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BG1zZ0lkAzUxNwR
zZWMDZG1zZwRzbGsDcnBseQRzdGltZQMxMTYzMzMwMDY5?act=reply&messageNum=517>
Reply via web post

<http://groups.yahoo.com/group/Racal6790GM/message/517;_ylc=X3oDMTMzNGx2
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AzUxNwRzZWMDZG1zZwRzbGsDdnRwYwRzdGltZQMxMTYzMzMwMDY5BHRwY0lkAzUxNw-->
Messages in this topic (1)

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* 3

<http://groups.yahoo.com/group/Racal6790GM/members;_ylc=X3oDMTJmY25xMjJl
BF9TAzk3MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwN2dGwE
c2xrA3ZtYnJzBHN0aW1lAzExNjMzMzAwNjk-> New Members

<http://groups.yahoo.com/group/Racal6790GM;_ylc=X3oDMTJlcDNiZDNzBF9TAzk3
MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwN2dGwEc2xrA3Zn
aHAEc3RpbWUDMTE2MzMzMDA2OQ--> Visit Your Group

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zEEZ3JwSWQDODk3MTQxMwRncnBzcElkAzE3MDgzOTYzNzkEc2VjA3NsbW9kBHN0aW1lAzExN
jMzMzAwNjk-?t=ms&k=Ham+radio+antenna&w1=Ham+radio+antenna&w2=Ham+radio+r
epeaters&w3=Ham+radio+sales&w4=Ham+radio+store&w5=Ham+radio+outlet&c=5&s
=112&g=3&.sig=T7O02gHgk4B2GCk_Xq0_8Q> Ham radio antenna

*
<http://groups.yahoo.com/gads;_ylc=X3oDMTJjYjVmbDhtBF9TAzk3MzU5NzE1BF9wA
zIEZ3JwSWQDODk3MTQxMwRncnBzcElkAzE3MDgzOTYzNzkEc2VjA3NsbW9kBHN0aW1lAzExN
jMzMzAwNjk-?t=ms&k=Ham+radio+repeaters&w1=Ham+radio+antenna&w2=Ham+radio
+repeaters&w3=Ham+radio+sales&w4=Ham+radio+store&w5=Ham+radio+outlet&c=5
&s=112&g=3&.sig=GN_wASdvnlqanzN2b8nj_Q> Ham radio repeaters

*
<http://groups.yahoo.com/gads;_ylc=X3oDMTJjbGFtNzBnBF9TAzk3MzU5NzE1BF9wA
zMEZ3JwSWQDODk3MTQxMwRncnBzcElkAzE3MDgzOTYzNzkEc2VjA3NsbW9kBHN0aW1lAzExN
jMzMzAwNjk-?t=ms&k=Ham+radio+sales&w1=Ham+radio+antenna&w2=Ham+radio+rep
eaters&w3=Ham+radio+sales&w4=Ham+radio+store&w5=Ham+radio+outlet&c=5&s=1
12&g=3&.sig=kTyKimrniIRUeYGJ7HByZw> Ham radio sales

*
<http://groups.yahoo.com/gads;_ylc=X3oDMTJjMHY5cW0zBF9TAzk3MzU5NzE1BF9wA
zQEZ3JwSWQDODk3MTQxMwRncnBzcElkAzE3MDgzOTYzNzkEc2VjA3NsbW9kBHN0aW1lAzExN
jMzMzAwNjk-?t=ms&k=Ham+radio+store&w1=Ham+radio+antenna&w2=Ham+radio+rep
eaters&w3=Ham+radio+sales&w4=Ham+radio+store&w5=Ham+radio+outlet&c=5&s=1
12&g=3&.sig=0L42vxzja7NcKKggf056wQ> Ham radio store

*
<http://groups.yahoo.com/gads;_ylc=X3oDMTJjdGVnNmU3BF9TAzk3MzU5NzE1BF9wA
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jMzMzAwNjk-?t=ms&k=Ham+radio+outlet&w1=Ham+radio+antenna&w2=Ham+radio+re
peaters&w3=Ham+radio+sales&w4=Ham+radio+store&w5=Ham+radio+outlet&c=5&s=
112&g=3&.sig=H0KrpWABkk9cT6g_8v1srw> Ham radio outlet

Yahoo! TV

<http://us.ard.yahoo.com/SIG=12hom6f4f/M=493064.8985665.9759897.8674578/
D=groups/S=1708396379:NC/Y=YAHOO/EXP=1163337269/A=3848443/R=0/SIG=10sq6u
3c2/*http:/tv.yahoo.com/picks/> Staying in tonight?

Check Daily Picks &

see what to watch.

Sitebuilder

<http://us.ard.yahoo.com/SIG=12i3d0kud/M=493064.9337501.10154278.8674578
/D=groups/S=1708396379:NC/Y=YAHOO/EXP=1163337269/A=4025304/R=0/SIG=12uhb
64pb/*http:/us.rd.yahoo.com/evt=44092/*http:/smallbusiness.yahoo.com/web
hosting/sitebuilding.php> Build a web site

quickly & easily

with Sitebuilder.

Y! GeoCities

<http://us.ard.yahoo.com/SIG=12h6vgsot/M=493064.8985658.9760664.8674578/
D=groups/S=1708396379:NC/Y=YAHOO/EXP=1163337269/A=3848541/R=0/SIG=12ban2
0bv/*http:/us.rd.yahoo.com/evt=42416/*http:/geocities.yahoo.com/ps/y360/

?v=f> Be Interactive

Create a conver-

sation with blogs.

Need to Reply?

Click one of the "Reply" links to respond to a specific message in the
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<http://groups.yahoo.com/group/Racal6790GM/post;_ylc=X3oDMTJlaXBra3NpBF9
TAzk3MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNmdHIEc2x
rA250cGMEc3RpbWUDMTE2MzMzMDA2OQ--> Create New Topic |
<http://groups.yahoo.com/group/Racal6790GM;_ylc=X3oDMTJjdWUxYmhyBF9TAzk3
MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNmdHIEc2xrA2hw
BHN0aW1lAzExNjMzMzAwNjk-> Visit Your Group on the Web

<http://groups.yahoo.com/group/Racal6790GM/messages;_ylc=X3oDMTJla3M2azR
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<http://groups.yahoo.com/group/Racal6790GM/files;_ylc=X3oDMTJmdWpsdG82BF
9TAzk3MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNmdHIEc2
xrA2ZpbGVzBHN0aW1lAzExNjMzMzAwNjk-> Files |
<http://groups.yahoo.com/group/Racal6790GM/photos;_ylc=X3oDMTJlZzBmcmFrB
F9TAzk3MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNmdHIEc
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<http://groups.yahoo.com/group/Racal6790GM/links;_ylc=X3oDMTJmNWQyZnNiBF
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_____ NOD32 1862 (20061110) Information _____

Diese E-Mail wurde vom NOD32 antivirus system geprüft
http://www.nod32.com

[Non-text portions of this message have been removed]

519. Re: [Racal6790GM] Schroff cabinet

Yahoo group: Racal6790GM
Date: 2006-11-12 14:48:56 UTC
From: toddroberts2001@aol.com
Topic: 518 Message: 519

In a message dated 11/12/2006 9:06:40 AM Eastern Standard Time,
k.gruenberger@... writes:
Hi @ all!

I think the partnumber is 10225-623!
Have a look on www.schroff.de <http://www.schroff.de/>
I’m thinking of buying one.
Anyone interested in joining?
Still waiting for a quote.
I’ll let you know what the price would be!
Regards

Keith

Hi Keith,
The last time I looked up a price on the Schroff cabinets to fit a
6790 the price was in the $300 range. I remember it was very hard to find a
distributor of them for the U.S. And if you could find a distributor for them the
waiting time was weeks or months.
73 Todd WD4NGG

520. Re: Schroff cabinet

Yahoo group: Racal6790GM
Date: 2006-11-13 15:59:20 UTC
From: n_whittingham
Topic: 518 Message: 520

Hi all

I contacted Schroff in the UK and asked for a quote for the cabinet highlighted by Keith. The price (including delivery within the UK) was £127 (approx. US$242). I have hesitated purchasing because not certain the dimensions are exactly right. Can anyone confirm using the 10225-623 cabinet for a 6790/GM?

Thanks,

Nick

--- In Racal6790GM@yahoogroups.com, toddroberts2001@... wrote:
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> Keith
>
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> 6790 the price was in the $300 range. I remember it was very hard to find a
> distributor of them for the U.S. And if you could find a distributor for them the
> waiting time was weeks or months.
> 73 Todd WD4NGG
>

521. RE: [Racal6790GM] Re: Schroff cabinet

Yahoo group: Racal6790GM
Date: 2006-11-13 16:35:37 UTC
From: ron keele
Topic: 518 Message: 521

Hi
You can buy the cabinet from a schroff distrubutor here in the usa.
ron
-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]On
Behalf Of n_whittingham
Sent: Monday, November 13, 2006 7:59 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Schroff cabinet

Hi all

I contacted Schroff in the UK and asked for a quote for the cabinet
highlighted by Keith.
The price (including delivery within the UK) was £127 (approx. US$242). I
have hesitated
purchasing because not certain the dimensions are exactly right. Can
anyone confirm
using the 10225-623 cabinet for a 6790/GM?

Thanks,

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> In a message dated 11/12/2006 9:06:40 AM Eastern Standard Time,
> k.gruenberger@... writes:
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> 6790 the price was in the $300 range. I remember it was very hard to
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> distributor of them for the U.S. And if you could find a distributor for
them the

> waiting time was weeks or months.
> 73 Todd WD4NGG
>

[Non-text portions of this message have been removed]

522. Re: Schroff cabinet

Yahoo group: Racal6790GM
Date: 2006-11-14 14:38:54 UTC
From: n_whittingham
Topic: 518 Message: 522

Thanks Ron. I am located in England, so will purchase here - but worry that I will end up with the wrong dimensions... Nick

--- In Racal6790GM@yahoogroups.com, "ron keele" <rkeele@...> wrote:
>
> Hi
> You can buy the cabinet from a schroff distrubutor here in the usa.
> ron
> -----Original Message-----
> From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]On
> Behalf Of n_whittingham
> Sent: Monday, November 13, 2006 7:59 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Re: Schroff cabinet
>
>
> Hi all
>
> I contacted Schroff in the UK and asked for a quote for the cabinet
> highlighted by Keith.
> The price (including delivery within the UK) was £127 (approx. US$242). I
> have hesitated
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> Thanks,
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> Nick
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> --- In Racal6790GM@yahoogroups.com, toddroberts2001@ wrote:
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> > In a message dated 11/12/2006 9:06:40 AM Eastern Standard Time,
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> them the
> > waiting time was weeks or months.
> > 73 Todd WD4NGG
> >
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

523. WG: Schroff Cabinet!

Yahoo group: Racal6790GM
Date: 2006-11-14 21:22:26 UTC
From: Keith Grünberger
Topic: 523 Message: 523

Hi List!

I just got the quote of the Austrian dealer.

With P&P within Austria its approx. 244$! The same as Nick said.

Delivery time would be 2 Weeks.

So until it lands in the US its approx: 280$ and 3 weeks!

I don?t think this is interesting for anyone in the US!

Since my 6970 has a wooden cabinet, made by a former owner, I might buy one to make it look perfect.

BTW: Does anyone have a source for new fronts? No plastic stick-on facials!

regards

Keith

-----Urspr?ngliche Nachricht-----
Von: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Gesendet: Dienstag, 14. November 2006 11:27
An: Racal6790GM@yahoogroups.com
Betreff: [Racal6790GM] Digest Number 219

<http://groups.yahoo.com/group/Racal6790GM;_ylc=X3oDMTJkZGUybmF0BF9TAzk3MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNoZHIEc2xrA2hwaARzdGltZQMxMTYzNTAwMDQ5> Racal 6790/GM

Messages In This Digest (1 Message)

1.

Re: Schroff cabinet From: n_whittingham

<http://groups.yahoo.com/group/Racal6790GM/messages;_ylc=X3oDMTJmNHJhOGxpBF9TAzk3MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNkbXNnBHNsawNhdHBjBHN0aW1lAzExNjM1MDAwNDk-?xm=1&m=p&tidx=1> View All Topics | <http://groups.yahoo.com/group/Racal6790GM/post;_ylc=X3oDMTJmOWU2ZG90BF9TAzk3MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNkbXNnBHNsawNudHBjBHN0aW1lAzExNjM1MDAwNDk-> Create New Topic

Message

1.

<http://groups.yahoo.com/group/Racal6790GM/message/520;_ylc=X3oDMTJwMHI3
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AzUyMARzZWMDZG1zZwRzbGsDdm1zZwRzdGltZQMxMTYzNTAwMDQ5> Re: Schroff
cabinet

Posted by: "n_whittingham"
<mailto:n_whittingham@...?Subject=%20Re%3A%20Schroff%20cabinet>
n_whittingham@yahoo.com <http://profiles.yahoo.com/n_whittingham>
n_whittingham

Mon Nov 13, 2006 8:05 am (PST)

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> distributor of them for the U.S. And if you could find a distributor
for them the
> waiting time was weeks or months.
> 73 Todd WD4NGG
>

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<mailto:n_whittingham@...?Subject=Re%3A%20Schroff%20cabinet>
Reply to sender |
<mailto:Racal6790GM@yahoogroups.com?Subject=%20Re%3A%20Schroff%20cabinet
> Reply to group |
<http://groups.yahoo.com/group/Racal6790GM/post;_ylc=X3oDMTJwaTUxc2VkBF9
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Reply via web post

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Messages in this topic (3)

Recent Activity

? 5

<http://groups.yahoo.com/group/Racal6790GM/members;_ylc=X3oDMTJmNXU0NTFn
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<http://groups.yahoo.com/group/Racal6790GM;_ylc=X3oDMTJlZzFvZjc3BF9TAzk3
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aHAEc3RpbWUDMTE2MzUwMDA0OQ--> Visit Your Group

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zEEZ3JwSWQDODk3MTQxMwRncnBzcElkAzE3MDgzOTYzNzkEc2VjA3NsbW9kBHN0aW1lAzExN
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=112&g=3&.sig=T7O02gHgk4B2GCk_Xq0_8Q> Ham radio antenna

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Check Daily Picks &

see what to watch.

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Ec2xrA2NhbARzdGltZQMxMTYzNTAwMDQ5> Calendar

<http://groups.yahoo.com/;_ylc=X3oDMTJkMXQxMWNpBF9TAzk3MzU5NzE1BGdycElkA
zg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNmdHIEc2xrA2dmcARzdGltZQMxMTYzN
TAwMDQ5> Yahoo! Groups

<http://groups.yahoo.com/group/Racal6790GM/join;_ylc=X3oDMTJmczJqZHQxBF9
TAzk3MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNmdHIEc2x
rA3N0bmdzBHN0aW1lAzExNjM1MDAwNDk-> Change settings via the Web (Yahoo!
ID required)
Change settings via email:
<mailto:Racal6790GM-normal@yahoogroups.com?subject=Email%20Delivery:%20I
ndiviual%20Email> Switch delivery to Individual |
<mailto:Racal6790GM-traditional@yahoogroups.com?subject=Change%20Deliver
y%20Format:%20Traditional> Switch format to Traditional

<http://groups.yahoo.com/group/Racal6790GM;_ylc=X3oDMTJkYWl2OXE4BF9TAzk3
MzU5NzE1BGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNmdHIEc2xrA2hw
ZgRzdGltZQMxMTYzNTAwMDQ5> Visit Your Group |
<http://docs.yahoo.com/info/terms/> Yahoo! Groups Terms of Use |
<mailto:Racal6790GM-unsubscribe@yahoogroups.com?subject=Unsubscribe>
Unsubscribe

<http://geo.yahoo.com/serv?s=97359715/grpId=8971413/grpspId=1708396379/m
sgId=219/stime=1163500049/nc1=3848443/nc2=4025301/nc3=3848530>

_____ NOD32 1864 (20061113) Information _____

Diese E-Mail wurde vom NOD32 antivirus system gepr?ft
http://www.nod32.com

[Non-text portions of this message have been removed]

524. Displays for RA6790/GM and RA6793A

Yahoo group: Racal6790GM
Date: 2006-11-25 06:13:42 UTC
From: Gary E. Wingerd
Topic: 524 Message: 524

I still have a good supply of new displays MODE and FREQUENCY for receiver RA6790/GM. I also have displays for the RA6793 & RA6793A MODE displays (Same as RA6790/GM) & some FREQUENCY displays (Less than 10). Christmas special $50.00 each and I pick up the shipping to anyone in the USA. I will work with everyone else in the world to keep the shipping cost down (less than $10.00). I hear the shipping cost will be increasing again very soon.

Thanks,
Gary
gewingerd@...

525. Bite test Error 15

Yahoo group: Racal6790GM
Date: 2006-11-26 02:57:25 UTC
From: my1racal
Topic: 525 Message: 525

Unit seems to work okay - but there is a #15 bite error. Any suggestions?

doug

526. Re: Bite test Error 15

Yahoo group: Racal6790GM
Date: 2006-11-26 09:03:56 UTC
From: Keith Grünberger
Topic: 525 Message: 526

--- In Racal6790GM@yahoogroups.com, "my1racal" <my1racal@...> wrote:
>
> Unit seems to work okay - but there is a #15 bite error. Any
> suggestions?
>
> doug
>

Hi Doug!

Error # 15 means:
Either no filters are installed in the system (which I doubt), or the
synthesizer signal strengh is out of range prescribed for BITE.

/Keith

527. Re: [Racal6790GM] Re: Bite test Error 15

Yahoo group: Racal6790GM
Date: 2006-11-26 15:55:54 UTC
From: Dan Rae
Topic: 525 Message: 527

Keith Gr?nberger wrote:

>--- In Racal6790GM@yahoogroups.com, "my1racal" <my1racal@...> wrote:
>
>
>>Unit seems to work okay - but there is a #15 bite error. Any
>>suggestions?
>>
>>doug
>>
>>
>>
>
>Hi Doug!
>
>Error # 15 means:
>Either no filters are installed in the system (which I doubt), or the
>synthesizer signal strengh is out of range prescribed for BITE.
>
>/Keith
>
>
>
It thinks that, but often as not, it is because the 1st mixer has died...
73
dan

528. RE : [Racal6790GM] Re: Bite test Error 15

Yahoo group: Racal6790GM
Date: 2006-11-26 23:20:34 UTC
From: philippe gombert
Topic: 525 Message: 528

hello

if you have manual of reeiver it is easy to test it. Take a generator à 1 mhz for example and move the tuning if the signal is okay after the second LO this is not a problem from filter or ol but i have had the same problem. 2 solution one is to use the fonction special from keyboard for forcing the reading of filter (it is explain inside the manual) or jus use you hand and push on the second and third prom softwre from cpu board because bad pin contacts.... it is incredible but i solve the problem with this method and my racal work very fine . I have completly verify all adjustment and performance (i have lab equipment hp synthtiseur and spectruml analyszer for that).

It's a very fine receiver but the quality of connecteur is a probleme (that isn't the harris rf590 product..)

Best regards philgievres

Keith Grünberger <k.gruenberger@...> a écrit :
--- In Racal6790GM@yahoogroups.com, "my1racal" <my1racal@...> wrote:
>
> Unit seems to work okay - but there is a #15 bite error. Any
> suggestions?
>
> doug
>

Hi Doug!

Error # 15 means:
Either no filters are installed in the system (which I doubt), or the
synthesizer signal strengh is out of range prescribed for BITE.

/Keith

Découvrez une nouvelle façon d'obtenir des réponses à toutes vos questions ! Profitez des connaissances, des opinions et des expériences des internautes sur Yahoo! Questions/Réponses.

[Non-text portions of this message have been removed]

529. RACAL6790GM-unsubscribe@yahoogroups.com

Yahoo group: Racal6790GM
Date: 2006-11-29 04:06:02 UTC
From: my1racal
Topic: 529 Message: 529

[Body unavailable in the source archive]

530. First Mixer alignment question

Yahoo group: Racal6790GM
Date: 2006-12-16 00:02:08 UTC
From: my1racal
Topic: 530 Message: 530

Please clarify the instructions in C.(1) what frequency does one set the signal generator to? Can one do a limited alignment without a spectrum analyzer? Thanks for your help.

531. Re: [Racal6790GM] First Mixer alignment question

Yahoo group: Racal6790GM
Date: 2006-12-16 18:57:30 UTC
From: gewingerd@netzero.com
Topic: 530 Message: 531

The output of the first mixer is always 40.455 MHz
The input of the normal receiver is 500 KHz to 29.999999 MHz
So if the receiver is set for 500 KHz on the front panel then the
First LO is 40.955 KHz and the signal at the rear at the antenna
connector will 500 KHz. The input level to check the receiver will be
between -5 DBm and -113 DBm in AGC and the receiver should have 10 DB
SINAD.

The Gain of the first mixer is -2 to plus 4 DBm at 40.455 MHz, and
you can check this by putting -60 DBm in the rear of the receiver,
put the receiver in AGC and listen to the audio out. Then start
decreasing the input until the signal goes away, the level should be
below -123 DBm for a working receiver. If the receiver audio goes out
below -60 DBm to -113 DBm then you have problems in the receiver.
The best way by far is to use a spectrum analyzer and check the gain
of each stage in manual gain on the front panel. Some times the A4
card has serious problems that cause the mixers not to work correctly.

I still repair the receivers and cards in the receivers in my shop
everyday.

Gary Wingerd
9107 Jordan Rd.
Fairplay, MD 21733

Thanks,
Gary

532. Re: [Racal6790GM] First Mixer alignment question

Yahoo group: Racal6790GM
Date: 2006-12-16 19:59:58 UTC
From: tony dinkel
Topic: 530 Message: 532

>
>I still repair the receivers and cards in the receivers in my shop
>everyday.
>
>Gary Wingerd
>9107 Jordan Rd.
>Fairplay, MD 21733

And he does a great job, reasonably priced and fast turnaround. I hope he
is still doing it the next time I need work.

From a happy customer,

tony dinkel
wb6mie

View Athlete?s Collections with Live Search
http://sportmaps.live.com/index.html?source=hmemailtaglinenov06&FORM=MGAC01

533. Schroff cabinet

Yahoo group: Racal6790GM
Date: 2006-12-28 09:01:40 UTC
From: hns_r
Topic: 518 Message: 533

HI,
Is it right that the typenumber of the Schroff cabinet is:
10225-623. I wanna buy that cabinet but I am not sure about the
real type-number.
Thanks, Hans.

534. 505 kHz experiment

Yahoo group: Racal6790GM
Date: 2006-12-30 08:43:08 UTC
From: Rick
Topic: 534 Message: 534

This evening I comfortably copied wd2xsh/20 south of Eugene Oregon on 505 kHz CW on a 6m dipole in Portland Oregon. Distance is 127 miles, and he's running 18 watts. Pretty cool.
There are a number of 500 kHz experimental stations on the air scattered around the US. A web search on "wd2xsh/20" provided lots of information.

The receiver is a Racal 6790/gm. Then I swapped the same antenna over to the TS570D and heard nothing. The receiver in the Kenwood transceiver tunes to the right frequency, but it isn't very sensitive there. The difference is remarkable.

Rick kk7b

535. Re: [Racal6790GM] 505 kHz experiment

Yahoo group: Racal6790GM
Date: 2006-12-30 17:50:01 UTC
From: Ed Tanton
Topic: 534 Message: 535

Hi Rick... the question gets to be whether you have a 'regular'
'6790, or a special one with-for example-the LF option/etc.???

At 03:43 AM 12/30/2006, you wrote:
>This evening I comfortably copied wd2xsh/20 south of Eugene Oregon
>on 505 kHz CW on a
>6m dipole in Portland Oregon. Distance is 127 miles, and he's
>running 18 watts. Pretty cool.
>There are a number of 500 kHz experimental stations on the air
>scattered around the US. A
>web search on "wd2xsh/20" provided lots of information.
>
>The receiver is a Racal 6790/gm. Then I swapped the same antenna
>over to the TS570D and
>heard nothing. The receiver in the Kenwood transceiver tunes to
>the right frequency, but it
>isn't very sensitive there. The difference is remarkable.
>
>Rick kk7b

Ed Tanton

website: http://www.n4xy.com

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

"Right is right, even if everyone is
against it; and wrong is wrong, even
if everyone is for it."

William Penn
---

536. 505 KHz

Yahoo group: Racal6790GM
Date: 2006-12-31 13:00:51 UTC
From: billw77aaz
Topic: 536 Message: 536

Mine has no LF option, copies .05uV at 505 KHz without any problem
W7AAZ

537. Re: 505 kHz experiment

Yahoo group: Racal6790GM
Date: 2006-12-30 23:52:21 UTC
From: Rick
Topic: 534 Message: 537

Hi Ed,

Good question, and the answer is mine is just a standard 6790/gm with the mod so the synthesizer allows it to tune all the way to zero. The antenna is a 6m horizontal halfwave dipole (i.e. about three meters long) with a ferrite 1:1 balun right at the center to decouple
the feedline, about 20 feet up. The 505 kHz transmitter I heard is vertically polarized, but
so is much of the noise around here. On the horizontal dipole I also pick up WWVB at 60 kHz, the NPR affiliate 80 miles south on 550 kHz, and some digital broadcasts at around 25 kHz. So it's just a short dipole, balun, and 35 feet of 50 ohm transmission line straight
into the passive FET mixer.

Best Regards,

Rick kk7b

--- In Racal6790GM@yahoogroups.com, Ed Tanton <n4xy@...> wrote:
>
> Hi Rick... the question gets to be whether you have a 'regular'
> '6790, or a special one with-for example-the LF option/etc.???
>
> At 03:43 AM 12/30/2006, you wrote:
> >This evening I comfortably copied wd2xsh/20 south of Eugene Oregon
> >on 505 kHz CW on a
> >6m dipole in Portland Oregon. Distance is 127 miles, and he's
> >running 18 watts. Pretty cool.
> >There are a number of 500 kHz experimental stations on the air
> >scattered around the US. A
> >web search on "wd2xsh/20" provided lots of information.
> >
> >The receiver is a Racal 6790/gm. Then I swapped the same antenna
> >over to the TS570D and
> >heard nothing. The receiver in the Kenwood transceiver tunes to
> >the right frequency, but it
> >isn't very sensitive there. The difference is remarkable.
> >
> >Rick kk7b
>
> Ed Tanton
>
> website: http://www.n4xy.com
>
> All emails <IN> & <OUT> checked by
> Norton AntiVirus with AutoProtect

>
> ---
> "Right is right, even if everyone is
> against it; and wrong is wrong, even
> if everyone is for it."
>
> William Penn
> ---
>

538. re: [Racal6790GM] 505 kHz experiment

Yahoo group: Racal6790GM
Date: 2006-12-31 02:07:09 UTC
From: Chuck Rippel
Topic: 534 Message: 538

Rick:

I you look in the specs of the TS-570, you'll see the sensitivity below 160M is significantly less than on the Amateur Bands. They intentionally design in a 30 or so db pad so, when tuning the AM Broadcast Band, the receiver does not "come apart."

Chuck

The receiver is a Racal 6790/gm. Then I swapped the same antenna over to the TS570D and heard nothing. The receiver in the Kenwood transceiver tunes to the right frequency, but it isn't very sensitive there. The difference is remarkable.

Rick kk7b

Yahoo! Groups Links

[Non-text portions of this message have been removed]

539. Re: [Racal6790GM] 505 KHz

Yahoo group: Racal6790GM
Date: 2007-01-01 14:39:18 UTC
From: Mil Radman
Topic: 536 Message: 539

Has anyone ever done testing to a "stock" RA6790/GM with the 9666 mod to see what the sensitivity levels are below 500 khz? I would like to know what they are to about 60 khz or even further down. Mine totally peters out at about 40 khz. It would be interesting to know what they are at different step frequencies below 500 khz.
I have a Racal RA-6337A converter that was made for the RA6217A receiver but have not used it yet. Power to the converter requires -16 volts (odd) and have not built a supply for it yet. It seems like it was well built and I'm interested to see if others have used one with the RA6790/GM.

John

billw77aaz <w7aaz@...> wrote:
Mine has no LF option, copies .05uV at 505 KHz without any problem
W7AAZ

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http://mail.yahoo.com

[Non-text portions of this message have been removed]

540. Re: [Racal6790GM] 505 KHz

Yahoo group: Racal6790GM
Date: 2007-01-01 15:17:30 UTC
From: toddroberts2001@aol.com
Topic: 536 Message: 540

In a message dated 1/1/2007 9:50:45 AM Eastern Standard Time,
milradman@... writes:
Has anyone ever done testing to a "stock" RA6790/GM with the 9666 mod to see what the sensitivity levels are below 500 khz? I would like to know what they are to about 60 khz or even further down. Mine totally peters out at about 40 khz. It would be interesting to know what they are at different step frequencies below 500 khz.
I have a Racal RA-6337A converter that was made for the RA6217A receiver but have not used it yet. Power to the converter requires -16 volts (odd) and have not built a supply for it yet. It seems like it was well built and I'm interested to see if others have used one with the RA6790/GM.

John

Hi John,
The sensitivity of the RA6790/GM below 500 KHz depends mostly on the first mixer A2 which is not really optimized for reception down to VLF. Also how low you are able to tune depends on the bandwidth of the first and second roofing filters which can be 20KHz wide or more in a standard 6790. The special VLF version of the 6790 has a different first mixer that is optimized to enable full sensitivity down to 10KHz and the second roofing filter is 8KHz wide which should allow tuning down to 10KHz.
Keep in mind the 6790 responds well to a good outboard VLF converter like the AMRAD unit that up-converts 0-500KHz to 4.0-4.5MHz where you can use all the sensitivity built into the receiver. The standard roofing filter will still limit how low you can tune in frequency on VLF but you should be able to get down to 20KHz or so with full sensitivity with a good converter in front of the 6790.
73 Todd WD4NGG

541. Re: 505 kHz experiment

Yahoo group: Racal6790GM
Date: 2007-01-01 19:14:22 UTC
From: Graham
Topic: 534 Message: 541

I was lucky and managed to get hold of the -vlf- front end for the set . Had the vlf tune software first, with the original front end - which worked well - the vlf front end is one step beyond , (as the song say's) ! quite amazing performance down to just under 10 Khz !

Still waiting for the 500 Kz allocation in the UK ....

G.

--- In Racal6790GM@yahoogroups.com, "Chuck Rippel" <wa4hhg@...> wrote:
>
>
> Rick:
>
> I you look in the specs of the TS-570, you'll see the sensitivity below 160M is significantly less than on the Amateur Bands. They intentionally design in a 30 or so db pad so, when tuning the AM Broadcast Band, the receiver does not "come apart."
>
> Chuck
>
> ---------------------------------------
>
> The receiver is a Racal 6790/gm. Then I swapped the same antenna over to the TS570D and
> heard nothing. The receiver in the Kenwood transceiver tunes to the right frequency, but it
> isn't very sensitive there. The difference is remarkable.
>
> Rick kk7b
>
> Yahoo! Groups Links
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

542. Re: [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2007-01-02 23:26:33 UTC
From: mparkinson1
Topic: 542 Message: 542

Hi
I have a R-6790gm receiver that was working for over 6 months and I stop useing for a while.
Today I went to turn it on and all I got were 00000 on the front panel and the functions display has 2 zeros on it .
I tested some voltages didn't really see any problems with the power supply voltages.
The Memory 2.5 volt cell is ok.
No sure what is going on.
If I leave it on for a while the audio will get a loud rushing noise.
There is no control of the front panel so I cannot do a bite test to see where to look.
Anyone have a Idea where to look???
thanks Matt P
Matt Parkinson R-390A Depot Repair.

[Non-text portions of this message have been removed]

543. Re: [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2007-01-03 00:41:27 UTC
From: Dan Rae
Topic: 542 Message: 543

mparkinson1 wrote:

>Hi
>I have a R-6790gm receiver that was working for over 6 months and I stop useing for a while.
>Today I went to turn it on and all I got were 00000 on the front panel and the functions display has 2 zeros on it .
>I tested some voltages didn't really see any problems with the power supply voltages.
>The Memory 2.5 volt cell is ok.
>No sure what is going on.
>
>

Matt, the "all zeros" is the reset state of the microprocessor, so you certainly won't be getting any BITE action or anything else until you find out why it's staying there. If you have indeed checked all the supply voltages and they are correct, then you will have to look and see why the uP is not starting. The usual cause of this is one of the tantalums going short circuit, as I'm sure you know, which pulls down the supply concerned.

I'm afraid there is not one single correct answer to this, but it is not that hard usually to track down.

73
Dan
ac6ao

544. Re: [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2007-01-03 00:58:23 UTC
From: toddroberts2001@aol.com
Topic: 544 Message: 544

In a message dated 1/2/2007 7:22:16 PM Eastern Standard Time,
mparkinson1@... writes:
Hi
I have a R-6790gm receiver that was working for over 6 months and I stop
useing for a while.
Today I went to turn it on and all I got were 00000 on the front panel and
the functions display has 2 zeros on it .
I tested some voltages didn't really see any problems with the power supply
voltages.
The Memory 2.5 volt cell is ok.
No sure what is going on.
If I leave it on for a while the audio will get a loud rushing noise.
There is no control of the front panel so I cannot do a bite test to see
where to look.
Anyone have a Idea where to look???
thanks Matt P
Matt Parkinson R-390A Depot Repair.

Hi Matt,
I would be sure and double-check all the voltages coming from the
power supply including the -minus rail and the +20 rail. If any of the voltages
going to the A6 board go out the radio will act dead like you described. If the
display reads 000000's that usually indicates trouble in the A6 board and also
if you can't run BITE.
90% of the troubles I have run into in the 6790 are usually due to a
tantalum cap failing and shorting one of the B+ lines. This almost always
happens after the radio has been sitting a while unused. As soon as you turn it on
the tantalum cap shorts and takes out the voltage with it.
Sometimes when a tantalum cap shorts it will smoke or even catch on
fire but it sounds like you don't have that problem.
Good luck let us know what you find. 73 Todd WD4NGG

545. Re: [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2007-01-03 05:30:58 UTC
From: mparkinson1
Topic: 545 Message: 545

OK
I found the problem.
Indeed it was a capacitor.
THis one was pulling down the -15 vdc line from the power supply.
Strange I had 2 problems.
U 2 which is -15 vdc was reading shorted to ground and I found a small piece of clipped wire shorting the base to ground.
Then suddenly the short came back after removing that first problem.
Then I found the -15 vdc shorted again now I traced it back to the 1st mixer board and found C 38 a 15mf -20vdc capacitor shorted to ground.
I didn't have another 15mf so I installed a 10mf @ 35 volts and that took care of the problem. I had to run the bite test 2 times and that cleared a bunch of faults and now we are in bussiness again.
I just needed to be pushed a little harder to find the problem.
I guess just plain lazy was my problem.
Or maybe just Pissed a little after having this receiver repaired 6 months ago and then having it fail again.
I am sure there will be more problems to come further down the road.
But for now the receiver is working just fine.
Thanks for the push boys and girls.
Thanks to Todd and Dan for the hard push.
Matt Parkinson R-390A Depot Repair.

[Non-text portions of this message have been removed]

546. RE: [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2007-01-03 13:20:33 UTC
From: Carcia, Francis A HS
Topic: 545 Message: 546

Collect yourself a jar of caps with higher voltage rating. This is the weak link in the Racal and Cubic receivers.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of mparkinson1
Sent: Wednesday, January 03, 2007 12:31 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM]

OK
I found the problem.
Indeed it was a capacitor.
THis one was pulling down the -15 vdc line from the power supply.
Strange I had 2 problems.
U 2 which is -15 vdc was reading shorted to ground and I found a small piece of clipped wire shorting the base to ground.
Then suddenly the short came back after removing that first problem.
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I just needed to be pushed a little harder to find the problem.
I guess just plain lazy was my problem.
Or maybe just Pissed a little after having this receiver repaired 6 months ago and then having it fail again.
I am sure there will be more problems to come further down the road.
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Thanks for the push boys and girls.
Thanks to Todd and Dan for the hard push.
Matt Parkinson R-390A Depot Repair.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

547. Re : [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2007-01-05 18:48:06 UTC
From: philippe gombert
Topic: 547 Message: 547

Hello

It is a fine idea, when i use my first racal receiver i have some trouble and dysfonction inside CPU and mixer board. I start by change all deccoupling capa for this board and never i had some trouble, just if the temperature is too high i use a very smile fan (from fan processeur temp control) for air forcing inside the receiver. I take the same thing for 3 other receiver...

Best regards

philgievres

----- Message d'origine ----
De : "Carcia, Francis A HS" <francis.carcia@...>
À : Racal6790GM@yahoogroups.com
Envoyé le : Mercredi, 3 Janvier 2007, 14h20mn 33s
Objet : RE: [Racal6790GM]

Collect yourself a jar of caps with higher voltage rating. This is the
weak link in the Racal and Cubic receivers.

---------- --------- --------- --

From: Racal6790GM@ yahoogroups. com [mailto:Racal6790GM@ yahoogroups. com]
On Behalf Of mparkinson1
Sent: Wednesday, January 03, 2007 12:31 AM
To: Racal6790GM@ yahoogroups. com
Subject: Re: [Racal6790GM]

OK
I found the problem.
Indeed it was a capacitor.
THis one was pulling down the -15 vdc line from the power supply.
Strange I had 2 problems.
U 2 which is -15 vdc was reading shorted to ground and I found a small
piece of clipped wire shorting the base to ground.
Then suddenly the short came back after removing that first problem.
Then I found the -15 vdc shorted again now I traced it back to the 1st
mixer board and found C 38 a 15mf -20vdc capacitor shorted to ground.
I didn't have another 15mf so I installed a 10mf @ 35 volts and that
took care of the problem. I had to run the bite test 2 times and that
cleared a bunch of faults and now we are in bussiness again.
I just needed to be pushed a little harder to find the problem.
I guess just plain lazy was my problem.
Or maybe just Pissed a little after having this receiver repaired 6
months ago and then having it fail again.
I am sure there will be more problems to come further down the road.

But for now the receiver is working just fine.
Thanks for the push boys and girls.
Thanks to Todd and Dan for the hard push.
Matt Parkinson R-390A Depot Repair.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

548. LF extension firmware

Yahoo group: Racal6790GM
Date: 2007-01-06 16:50:12 UTC
From: Dan Rae
Topic: 548 Message: 548

As I am now enjoying enormously my RA6790/GM fitted with LF firmware
that has tuning steps of 1, 10, and 100 Hz instead of the dreadful 1, 30
and 1000 Hz steps of the normal firmware set, I am happy to offer the
original set of A09666 LF eproms for sale. Please contact me directly,
not through the list, if you are interested.
73
Dan
ac6ao

549. Re: LF extension firmware

Yahoo group: Racal6790GM
Date: 2007-01-14 10:34:06 UTC
From: hns_r
Topic: 548 Message: 549

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> As I am now enjoying enormously my RA6790/GM fitted with LF firmware
> that has tuning steps of 1, 10, and 100 Hz instead of the dreadful
1, 30
> and 1000 Hz steps of the normal firmware set, I am happy to offer
the
> original set of A09666 LF eproms for sale. Please contact me
directly,
> not through the list, if you are interested.
> 73
> Dan
> ac6ao
>
HI,
Where do I become the new firmware you talk about?
73, Hans

550. Re: [Racal6790GM] Re: LF extension firmware

Yahoo group: Racal6790GM
Date: 2007-01-14 15:42:32 UTC
From: Dan Rae
Topic: 548 Message: 550

hns_r wrote:

>--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
>
>>As I am now enjoying enormously my RA6790/GM fitted with LF firmware
>>that has tuning steps of 1, 10, and 100 Hz instead of the dreadful
>>
>>
>HI,
>Where do I become the new firmware you talk about?
>73, Hans
>
>
>
I obtained mine from Allen Bond at max gain systems mgs4u@...
73
Dan

551. Re: [Racal6790GM] Re: LF extension firmware

Yahoo group: Racal6790GM
Date: 2007-01-14 16:08:31 UTC
From: mparkinson1
Topic: 548 Message: 551

Dan give me your email address and I will contact you about the LF firmware.
Matt Parkinson R-390A Depot Repair.

[Non-text portions of this message have been removed]

552. Re: [Racal6790GM] Re: LF extension firmware

Yahoo group: Racal6790GM
Date: 2007-01-14 16:07:53 UTC
From: mparkinson1
Topic: 548 Message: 552

Dan give me your email address
Matt Parkinson R-390A Depot Repair.

[Non-text portions of this message have been removed]

553. Racal Stuff for sale

Yahoo group: Racal6790GM
Date: 2007-01-18 21:17:58 UTC
From: bigmacinplano
Topic: 553 Message: 553

I have just listed several items on Ebay. The last I hope of my Racal 6790 parts. Have a few more odd and ends which I will list in due time. Thanks for all you guys and your interest.
Richard
K5WOR

554. Re: [Racal6790GM] Racal Stuff for sale

Yahoo group: Racal6790GM
Date: 2007-01-19 05:49:19 UTC
From: machine.age@juno.com
Topic: 553 Message: 554

Would be nice to have a link.

radioman

Please note: message attached

_____
FREE Reminder Service - NEW from AmericanGreetings.com
Click HERE and never forget a Birthday or Anniversary again!
http://track.juno.com/s/lc?s=197335&u=http://www.americangreetings.com/products/online_calendar.pd?c=uol5752

[Non-text portions of this message have been removed]

555. Re: [Racal6790GM] Racal Stuff for sale

Yahoo group: Racal6790GM
Date: 2007-01-19 06:05:56 UTC
From: Leigh Sedgwick
Topic: 553 Message: 555

Just go to the hame radio/shortwave catagory and do a search on Racal....he
has quite a few different parts for sale.

Mike, K7PI

----- Original Message -----
From: <machine.age@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Thursday, January 18, 2007 9:49 PM
Subject: Re: [Racal6790GM] Racal Stuff for sale

> Would be nice to have a link.
>
> radioman
>
> Please note: message attached
>
>
>
>
> _____
> FREE Reminder Service - NEW from AmericanGreetings.com
> Click HERE and never forget a Birthday or Anniversary again!
> http://track.juno.com/s/lc?s=197335&u=http://www.americangreetings.com/products/online_c
alendar.pd?c=uol5752
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>

556. Re: Racal Stuff for sale

Yahoo group: Racal6790GM
Date: 2007-01-19 21:25:49 UTC
From: bigmacinplano
Topic: 553 Message: 556

--- In Racal6790GM@yahoogroups.com, "bigmacinplano" <K5wor@...> wrote:
Sorry guess I could /should have. Try this.

http://search.ebay.com/_W0QQsassZmacinplano

Richard

557. RA 6790 re-work source

Yahoo group: Racal6790GM
Date: 2007-01-20 00:26:30 UTC
From: Chuck Rippel
Topic: 557 Message: 557

There is a name and perhaps www site for a person who rebuilds RA 6790's. Anyone know who that is and POC information?

Thanks!

558. Re: [Racal6790GM] RA 6790 re-work source

Yahoo group: Racal6790GM
Date: 2007-01-20 13:48:31 UTC
From: toddroberts2001@aol.com
Topic: 557 Message: 558

In a message dated 1/20/2007 2:13:52 AM Eastern Standard Time,
wa4hhg@... writes:
There is a name and perhaps www site for a person who rebuilds RA
6790's. Anyone know who that is and POC information?
Thanks!

Gary E Wingerd specializes in repair and service of the RA6790. You can reach
him at

gewingerd@...

73 Todd WD4NGG

559. Re: [Racal6790GM] RA 6790 re-work source

Yahoo group: Racal6790GM
Date: 2007-01-20 18:23:56 UTC
From: gewingerd@netzero.com
Topic: 557 Message: 559

I repair all the RA6790/GM receivers and carry a lot of new parts for the receivers, I even repair them for the USAF and yes they are still in use.
Allen Bond has the low frequency eproms sets for the RA6790/GM that tune in 1,10,100HZ steps. You may contact him at "Allen Bond" mgs4u@... He has a great price for them.
"Pricing is $39 per set of 3 EPROMS. Add $5 per order (as many sets as you want) S&H, priority mail. Ours do not provide the AGC data."
Thanks,
Gary

[Non-text portions of this message have been removed]

560. WTB: 6790

Yahoo group: Racal6790GM
Date: 2007-01-20 22:59:04 UTC
From: ak7dx
Topic: 560 Message: 560

I am looking for a nice 6790. Please advise condition, serial no. any spares, cabinet, etc. All the typical questions.

I owned one in 96 and am very familar with the rx.

73

John Miller
Boise, Idaho

Please e-mail direct: bfdp1@...

561. Re: [Racal6790GM] RA 6790 re-work source

Yahoo group: Racal6790GM
Date: 2007-01-20 14:28:28 UTC
From: Chuck Rippel
Topic: 557 Message: 561

That is the name! Thanks so much for the reply.

Chuck, WA4HHG

On 20 Jan 2007 at 8:48, toddroberts2001@... wrote:

> In a message dated 1/20/2007 2:13:52 AM Eastern Standard Time,
> wa4hhg@... writes:
> There is a name and perhaps www site for a person who rebuilds RA
> 6790's. Anyone know who that is and POC information?
> Thanks!
>
> Gary E Wingerd specializes in repair and service of the RA6790. You can reach
> him at
>
> gewingerd@...
>
> 73 Todd WD4NGG
>

562. Re: WTB: 6790

Yahoo group: Racal6790GM
Date: 2007-01-21 15:25:58 UTC
From: Chuck Rippel
Topic: 560 Message: 562

Its actually not mine, it belongs to a good friend off mine in CANADA and I have had it for about 4 years on "extended loan." e one I have is fairly pristine. It has 2 additional filters
(from Sherwood, I believe) making the suite in AM 2.0, 3.2, 4.8 and 7.3 kc. Of course, it has the 2.7's for SSB. Front panel is original white and not a scratch. All the display lightning works, none of the plastic covers over the buttons are cracked, etc....

I like the receiver but don't use it that much or I'd offer the owner the $950 he wants for it.
In my mind, it ought to be gone through by someone very competent. Nothing really wrong that comes to mind, its always nice to have all the levels right, PLL free-run frequencies set right n the money, etc..... You might have seen the note I put on the Group looking for the gentleman who was noted for working on them.

If you are interested, let me know. We were going to list it on E-Bay in a few days but would rather not.

Best
Chuck
WA4HHG

On 20 Jan 2007 at 22:59, ak7dx wrote:

>
> I am looking for a nice 6790. Please advise condition, serial no. any
> spares, cabinet, etc. All the typical questions.
>
> I owned one in 96 and am very familar with the rx.
>
> 73
>
> John Miller
> Boise, Idaho

563. Re: [Racal6790GM] RA 6790 re-work source

Yahoo group: Racal6790GM
Date: 2007-01-21 21:37:32 UTC
From: FRANCIS CARCIA
Topic: 557 Message: 563

You guys might look at Dallas Lankford mods. The audio is a bit hot in these receivers and sometimes there is distortion due to compression in the audio amplifiers. I've seen guys sell these receivers when it just took a level change. gfz

Chuck Rippel <wa4hhg@...> wrote: That is the name! Thanks so much for the reply.

Chuck, WA4HHG

On 20 Jan 2007 at 8:48, toddroberts2001@... wrote:

> In a message dated 1/20/2007 2:13:52 AM Eastern Standard Time,
> wa4hhg@... writes:
> There is a name and perhaps www site for a person who rebuilds RA
> 6790's. Anyone know who that is and POC information?
> Thanks!
>
> Gary E Wingerd specializes in repair and service of the RA6790. You can reach
> him at
>
> gewingerd@...
>
> 73 Todd WD4NGG
>

[Non-text portions of this message have been removed]

564. 6790 failure

Yahoo group: Racal6790GM
Date: 2007-01-27 02:41:27 UTC
From: toptyp19
Topic: 564 Message: 564

Hello all!
Several weeks ago my 6790 died upon power-up. I immediately thought one of the tantalums had passed on. I contacted Gary and he was kind enough to pass along a few tips as to isolating the suspect capacitor. To make a long story short; after disconnecting all boards and reconnecting one at a time, the receiver worked perfectly and continues to do so. Moral: perhaps a bit of oxidation showed up on the contacts, I don't know. The receiver was last serviced in 1988 according to a sticker on the top cover. Before any metering or soldering is attempted, try the fundamental procedures.
Thanks again for your help, Gary!
73 to everyone,
Joe-WA9LAE.

565. (no subject)

Yahoo group: Racal6790GM
Date: 2007-02-05 19:34:59 UTC
From: gewingerd@netzero.com
Topic: 565 Message: 565

Complete list of parts I carry for the RA6790/GM receiver!

Parts I carry in stock, All parts are new.

7883-1 400 Hz Mechanical Filter less coupling caps 50.00 Each
plus shipping
7883-2 1 KHz Mechanical Filter less coupling caps $50.00 Each
plus shipping
7883-3 6 KHz Mechanical Filter less coupling caps $50.00 Each
plus shipping
8408 6.8 KHz Crystal Filter $50.00 Each plus shipping
8414 6.8 KHz Crystal Filter $50.00 Each plus shipping
8420 6 KHz Crystal Filter $50.00 Each plus shipping
8699 150 Hz Crystal Filter $50.00 Each plus shipping
1600121 3 KHz Crystal Filter $50.00 Each plus shipping
1600122 5 KHz Crystal Filter $50.00 Each plus shipping NOTE: 1
Only
1600159 6 KHz Crystal Filter $50.00 Each plus shipping
3600005 6 KHz Crystal Filter $50.00 Each plus shipping

Frequency LCD Display RA6790/GM $55.00 Each plus shipping
Mode LCD Display RA6790/GM and RA6793 $55.00 Each plus shipping
Frequency LCD Display RA6793, RA6793A and RA6793A-6 $75.00 Each plus
shipping

Battery Micro-card BT1 $15.00 Each plus shipping

9666 Software $45.00 Each plus shipping

RS232 Remote Connector $45.00 Each plus shipping
RS232 Remote Cable Assembly $95.00 Each plus shipping

LED Board KIT $50.00 Each plus shipping
LED Board for the Front Panel Complete $75.00 Each plus shipping

FET Card KIT for A2 Mixer Box with Instructions & Drawings $100.00
Each plus shipping

Right Front Panel Frequency Keypad $45.00 Each plus shipping

Thanks,
Gary Wingerd

566. Re: [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2007-02-05 20:56:14 UTC
From: Hans R
Topic: 565 Message: 566

HI Gary,
Thanks for the list but i am looking for de special usb/isb and lsb/isb filters 2700 Hz partnumber 08409 and 08410
and the A5 board.
Best 73's Hans from the netherlands.

"gewingerd@..." <gewingerd@...> wrote:
Complete list of parts I carry for the RA6790/GM receiver!

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Thanks,
Gary Wingerd

What kind of emailer are you? Find out today - get a free analysis of your email personality. Take the quiz at the Yahoo! Mail Championship.

[Non-text portions of this message have been removed]

567. Re: [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2007-02-05 21:22:57 UTC
From: FRANCIS CARCIA
Topic: 565 Message: 567

A couple of them sold on ebay a couple weeks ago. They are quite rare.

Hans R <hns_r@...> wrote: HI Gary,
Thanks for the list but i am looking for de special usb/isb and lsb/isb filters 2700 Hz
partnumber 08409 and 08410
and the A5 board.
Best 73's Hans from the netherlands.

"gewingerd@..." <gewingerd@...> wrote:
Complete list of parts I carry for the RA6790/GM receiver!

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Right Front Panel Frequency Keypad $45.00 Each plus shipping

Thanks,
Gary Wingerd

What kind of emailer are you? Find out today - get a free analysis of your email personality. Take the quiz at the Yahoo! Mail Championship.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

568. Memory back-up battery

Yahoo group: Racal6790GM
Date: 2007-02-22 19:04:10 UTC
From: toptyp19
Topic: 568 Message: 568

Hi to the group!
I just replaced the battery with a Varta from Gary.
I guess I was really lucky because my Data-Sentry hadn't leaked and
messed up the A6 board. I had assumed (stupid on my part) that the
Data-Sentry was new or almost so when I purchased the receiver in
November. After viewing the PCB however I realized it was original!
I had quite a time removing it due to the snugness of the through
holes but even my ham-handedness prevailed in the end. I don't know
the aging history of the NiMH compared to a NiCD but I'm hoping
for 4-5 years before another is in order. At least next time replacement
will be easier now that the holes are less tight.
73, Joe-WA9LAE.

569. Filters

Yahoo group: Racal6790GM
Date: 2007-02-24 08:31:45 UTC
From: hns_r
Topic: 569 Message: 569

HI members,
I just become a A5 ISB board, and now I am looking for the special filters: ISB/LSB racal number 08409 and ISB/USB racal number 08410. Can somebody help me, I think this are the beste filters with the A5 board, if I am wrong, tell me what the best congfiguration is.
Best 73's Hans

570. My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-25 03:16:22 UTC
From: mml430
Topic: 570 Message: 570

Hi all... just join after having grabbed a pair of units.

My impressions so far..

First hour.. hated them. Hang-arc agc too vicious, filters too wide for ssb.. why all that IF gain ... etc etc..

Second hour.. started to understand the rig.. used the 1.6khz filter with 1.2khz offset.. honky but better. Man/Med agc helped. That hang -arc has got to go.

Third hour .. A/B comparison with the following rigs using same speaker and antenna, all auto switched on 40 meters (full wave horizontal loop).

racal ra1778, 390a, ic775dsp, w&j8709, nrd515 & 525, sherwood drake r4c and r7a, Dansk rx4000 and 3000, ic7400(746pro, aor7030+, codan 9323 and a bunch of other odd rigs...

After 8 hours and a massive headache, I think I rather like the rig. It obviously has great potential. I have no idea how well they are aligned yet, but if they can be improved I will be very impressed.

Questions??.. I havent had time to read the messages yet..

A/ Are there any 2/2.1kcs filters made by Racal.. to replace the 16kc slot.
B/ Are there any Mode lcd's available.. one units bleeding a tad.

C/ Roofing filter... is there anything around other than the 20kc (I think) unit..... perhaps 6-8kcs.

Should have aquired this model years ago... It grows on you.

Cheers Richard.

571. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-25 16:24:58 UTC
From: gewingerd@netzero.com
Topic: 570 Message: 571

I have brand new Mode and Frequency Displays for $55.00 each plus shipping. I accept PayPal, checks and money orders.
gewingerd@...

Thanks,
Gary

Here are the Parts I carry in stock, All parts are new.

7883-1 400 Hz Mechanical Filter less coupling caps 50.00 Each plus shipping
7883-2 1 KHz Mechanical Filter less coupling caps $50.00 Each plus shipping
7883-3 6 KHz Mechanical Filter less coupling caps $50.00 Each plus shipping
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8414 6.8 KHz Crystal Filter $50.00 Each plus shipping
8420 6 KHz (15 KHz in Radio) Crystal Filter $50.00 Each plus shipping
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GARY E. WINGERD
9107 JORDAN RD.
FAIRPLAY, MD 21733

GEWINGERD@...

572. RE: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-25 20:48:34 UTC
From: tony dinkel
Topic: 570 Message: 572

>
>Should have aquired this model years ago... It grows on you.

It sure does. I have never had a better sounding ssb receiver in my life.
I had it working on a camping trip not long ago and someone thought I was
listening to a "funny" broadcast station on 5574.

td
wb6mie

_____
Find what you need at prices you?ll love. Compare products and save at MSN?
Shopping.
http://shopping.msn.com/default/shp/?ptnrid=37,ptnrdata=24102&tcode=T001MSN20A0701

573. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-25 17:27:33 UTC
From: FRANCIS CARCIA
Topic: 570 Message: 573

Hi All,
Racal 8 KHz roofing filters are quite rare but W.J. made some nice ones in a small package. I have fit them into Racal and they work fine. The Racal 1.2 khz filter is a greal battle mode SSB filter. It was used mostly in DF receivers. My RA6830 hot rod has a pair of 8 KHz filters in the first IF. It works great. gfz

mml430 <mml430@...> wrote:
Hi all... just join after having grabbed a pair of units.

My impressions so far..

First hour.. hated them. Hang-arc agc too vicious, filters too wide for ssb.. why all that IF gain ... etc etc..

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Third hour .. A/B comparison with the following rigs using same speaker and antenna, all auto switched on 40 meters (full wave horizontal loop).

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C/ Roofing filter... is there anything around other than the 20kc (I think) unit..... perhaps 6-8kcs.

Should have aquired this model years ago... It grows on you.

Cheers Richard.

[Non-text portions of this message have been removed]

574. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-26 09:53:46 UTC
From: richard bogusz
Topic: 570 Message: 574

Hi Francis

I'm surprised how good the 1.2kc filter is (shows as 1.6 and sounds like it) on ssb.. Using 1.2kc BFO offset is a pain... has anyone put this filter into slot 1.... and if so where does the bfo freq settle..? Perhaps that could have been expressed a little better.. but you get my drift.

RE: W&J 8/kcs roofing filters..... where on earth do you begin to find them..? Who do I have to kill...

Regards Richard..

FRANCIS CARCIA <carcia@...> wrote: Hi All,
Racal 8 KHz roofing filters are quite rare but W.J. made some nice ones in a small package. I have fit them into Racal and they work fine. The Racal 1.2 khz filter is a greal battle mode SSB filter. It was used mostly in DF receivers. My RA6830 hot rod has a pair of 8 KHz filters in the first IF. It works great. gfz

---
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[Non-text portions of this message have been removed]

575. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-26 15:51:36 UTC
From: oscar873@aol.com
Topic: 570 Message: 575

GARY,
Do you know who might have a copy of the Applied communications sr-2155 receiver manual?
Al

-----Original Message-----
From: gewingerd@...
To: Racal6790GM@yahoogroups.com
Sent: Sun, 25 Feb 2007 8:24 AM
Subject: Re: [Racal6790GM] My first 6790/gm's

I have brand new Mode and Frequency Displays for $55.00 each plus
shipping. I accept PayPal, checks and money orders.
gewingerd@...

Thanks,
Gary

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9107 JORDAN RD.
FAIRPLAY, MD 21733

GEWINGERD@...

_____
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[Non-text portions of this message have been removed]

576. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-26 13:44:26 UTC
From: FRANCIS CARCIA
Topic: 570 Message: 576

You can put the filter in any slot then just run in CW mode with the right offset. This way you can leave the wider filter in FL1 slot.

richard bogusz <mml430@...> wrote: Hi Francis

I'm surprised how good the 1.2kc filter is (shows as 1.6 and sounds like it) on ssb.. Using 1.2kc BFO offset is a pain... has anyone put this filter into slot 1.... and if so where does the bfo freq settle..? Perhaps that could have been expressed a little better.. but you get my drift.

RE: W&J 8/kcs roofing filters..... where on earth do you begin to find them..? Who do I have to kill...

Regards Richard..

FRANCIS CARCIA <carcia@...> wrote: Hi All,
Racal 8 KHz roofing filters are quite rare but W.J. made some nice ones in a small package. I have fit them into Racal and they work fine. The Racal 1.2 khz filter is a greal battle mode SSB filter. It was used mostly in DF receivers. My RA6830 hot rod has a pair of 8 KHz filters in the first IF. It works great. gfz

---
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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

577. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-26 18:55:40 UTC
From: toddroberts2001@aol.com
Topic: 570 Message: 577

I have built up a few plug-in filter adapter boards for the 6790 using the Collins 2.4KHz torsion mechanical filters to plug into slot 1. This really tightens up the SSB and makes the whole receiver sound better. I am also making up some plug-in filter boards with the Collins 5.5Khz torsion mechanical filters. These fix the wide selectivity jump from the normal 3.2KHz to 6.8KHz filter that usually reads about 8KHz wide on BITE.
The stock filters sound either too wide at 8KHz or too narrow at 3.2KHz for the AM mode to my ears. For more precision AM listening the 5.5KHz Collins torsion filters are just right for the more crowded SW broadcast bands when the stations use 5KHz spacing or for the crowded ham band AM signals.
73 Todd WD4NGG

[Non-text portions of this message have been removed]

578. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-26 19:57:35 UTC
From: Dan Rae
Topic: 570 Message: 578

toddroberts2001@... wrote:

> I am also making up
>some plug-in filter boards with the Collins 5.5Khz torsion mechanical filters.
>These fix the wide selectivity jump from the normal 3.2KHz to 6.8KHz filter
>that usually reads about 8KHz wide on BITE.
>
>
Having fitted one of Todd's filter boards to one of my RA6790/GMs I can vouch for what Todd says; it's like a new receiver for AM with one of his filters fitted. I can unreservedly recommend these.

For narrow SSB there have been in the past a few 1.95 kHz wide USB / LSB blue Collins mechanical filter pairs sold on eBay that can be fitted to the 6790/GM, with some adjustment to the filter matching. I have a pair of these fitted in another of my Racals and it gives really tight sideband, great for crowded band conditions or contests, but a bit tiring for rag chewing type contacts. As a compromise I like best the 2.7 kHz wide sideband crystal filters that you often find in the RA1792.
73
Dan
ac6ao / g3ncr

579. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-26 22:01:32 UTC
From: richard bogusz
Topic: 570 Message: 579

Don't laugh... tried the 1.2kc (shows as 1.6kc) crystal filter in slot'1'.... No go... the BFO settled at about 1.6kc... toooo high...needed about 1.2kc as per CW mode. Anyway seems you guys have tried many options and it does sound like the search for an appropriate 2.1kc filter has begun... perhaps the Sherwood filter for the Racal is the last resort... the price is a bit steep.

After a few more hours of comparisons, one of these 6790's seems to be able to keep up with my ic775dsp(inrad roofing filters)... on 7mcs... and it aint shabby on 28mcs either...This really impresses and encourages me to go full bore on getting some better filters... I have read that these units are not overly sensitive.. well, in this semi-rural QTH sensitivity is not an issue, even at 28mcs, on one of these units.. the other is a tad down... What is really irritating, I have 2 unmodified 746pro's, one is a ic7400.. but the same thing... where one unit is considerably better than the other..... I often think there is a fair amount of luck involved when choosing between 2 identical units... Anyway thanks to everyone for their responses... its all good fun..

Richard..

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[Non-text portions of this message have been removed]

580. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-26 20:06:08 UTC
From: FRANCIS CARCIA
Topic: 570 Message: 580

Many Collins filters are designed to work at 2 KOHM termination. Racal uses 5 KHz filters. A resistor across the input and output of about 4.7K will get you closer. Mechanical filters like resistive terminations so tuned circuits can be tricky to adjust without hurting passband ripple. gfz

Dan Rae <danrae@...> wrote: toddroberts2001@... wrote:

> I am also making up
>some plug-in filter boards with the Collins 5.5Khz torsion mechanical filters.
>These fix the wide selectivity jump from the normal 3.2KHz to 6.8KHz filter
>that usually reads about 8KHz wide on BITE.
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73
Dan
ac6ao / g3ncr

[Non-text portions of this message have been removed]

581. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-27 00:48:25 UTC
From: bipi@comcast.net
Topic: 570 Message: 581

Bob Sherwood sells Collins fitted to an adaptor PC board. Not sure what he has left but he had a number of bandwidths awhile ago.

GL 73

--------------- Original message ---------------
From: toddroberts2001@...

> I have built up a few plug-in filter adapter boards for the 6790 using the
> Collins 2.4KHz torsion mechanical filters to plug into slot 1. This really
> tightens up the SSB and makes the whole receiver sound better. I am also making
> up
> some plug-in filter boards with the Collins 5.5Khz torsion mechanical filters.
> These fix the wide selectivity jump from the normal 3.2KHz to 6.8KHz filter
> that usually reads about 8KHz wide on BITE.
> The stock filters sound either too wide at 8KHz or too narrow at
> 3.2KHz for the AM mode to my ears. For more precision AM listening the 5.5KHz
> Collins torsion filters are just right for the more crowded SW broadcast bands
> when
> the stations use 5KHz spacing or for the crowded ham band AM signals.
> 73 Todd WD4NGG
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

582. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-27 10:12:38 UTC
From: gewingerd@netzero.com
Topic: 570 Message: 582

Al,

You might try
http://www.geocities.com/capecanaveral/hall/8701/ham/boneyard.htm

Thanks,
Gary

583. RE: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-27 13:29:31 UTC
From: Carcia, Francis A HS
Topic: 570 Message: 583

Don't put the 1.2 KHz filter in FL1. so the BFO isn't locked in SSB mode. Leave the wider one there so the bfo offset will work correctly. The 1.2 makes a nice wide CW filter. You guys wanna try something cool. Build another little board and cascade the filters with a second bank of matching filters. The diode switching is pretty simple. This really works well with a good pair of roofing filters.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of richard bogusz
Sent: Monday, February 26, 2007 5:02 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] My first 6790/gm's

Don't laugh... tried the 1.2kc (shows as 1.6kc) crystal filter in slot'1'.... No go... the BFO settled at about 1.6kc... toooo high...needed about 1.2kc as per CW mode. Anyway seems you guys have tried many options and it does sound like the search for an appropriate 2.1kc filter has begun... perhaps the Sherwood filter for the Racal is the last resort... the price is a bit steep.

After a few more hours of comparisons, one of these 6790's seems to be able to keep up with my ic775dsp(inrad roofing filters)... on 7mcs... and it aint shabby on 28mcs either...This really impresses and encourages me to go full bore on getting some better filters... I have read that these units are not overly sensitive.. well, in this semi-rural QTH sensitivity is not an issue, even at 28mcs, on one of these units.. the other is a tad down... What is really irritating, I have 2 unmodified 746pro's, one is a ic7400.. but the same thing... where one unit is considerably better than the other..... I often think there is a fair amount of luck involved when choosing between 2 identical units... Anyway thanks to everyone for their responses... its all good fun..

Richard..

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

584. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-27 14:03:30 UTC
From: FRANCIS CARCIA
Topic: 570 Message: 584

All my Racals work the same within a dB or so of each other. MDS and dynamic range.
I don't know about rice box quality. The only thing I see that varies is synthesizer phase noise due to variations in op amp performance. They are fairly close in performance though.
fc

richard bogusz <mml430@...> wrote:
Don't laugh... tried the 1.2kc (shows as 1.6kc) crystal filter in slot'1'.... No go... the BFO settled at about 1.6kc... toooo high...needed about 1.2kc as per CW mode. Anyway seems you guys have tried many options and it does sound like the search for an appropriate 2.1kc filter has begun... perhaps the Sherwood filter for the Racal is the last resort... the price is a bit steep.

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Richard..

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[Non-text portions of this message have been removed]

585. Newly Acquired 6790/GM

Yahoo group: Racal6790GM
Date: 2007-02-27 16:39:09 UTC
From: wb9njb
Topic: 585 Message: 585

Well, I took the plunge, for better or worse, and bought the radio. I may be over my technical head on this one. Does anyone know where I can get the matching speaker unit (other than on eBay)? I have seen pictures of them, but not one for sale. Thanks.

586. Re: My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-27 18:06:17 UTC
From: Graham
Topic: 570 Message: 586

--- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
> All my Racals work the same within a dB or so of each other. MDS and dynamic range.
> I don't know about rice box quality. The only thing I see that varies is synthesizer phase noise due to variations in op amp performance. They are fairly close in performance though. fc
>
> richard bogusz <mml430@...> wrote:
> Don't laugh... tried the 1.2kc (shows as 1.6kc) crystal filter in slot'1'.... No go... the BFO settled at about 1.6kc... toooo high...needed about 1.2kc as per CW mode. Anyway seems you guys have tried many options and it does sound like the search for an appropriate 2.1kc filter has begun... perhaps the Sherwood filter for the Racal is the last resort... the price is a bit steep.
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> After a few more hours of comparisons, one of these 6790's seems to be able to keep up with my ic775dsp(inrad roofing filters)... on 7mcs... and it aint shabby on 28mcs either...This really impresses and encourages me to go full bore on getting some better filters... I have read that these units are not overly sensitive.. well, in this semi-rural QTH sensitivity is not an issue, even at 28mcs, on one of these units.. the other is a tad down... What is really irritating, I have 2 unmodified 746pro's, one is a ic7400.. but the same thing... where one unit is considerably better than the other..... I often think there is a fair amount of luck involved when choosing between 2 identical units... Anyway thanks to everyone for their responses... its all good fun..
>
> Richard..
>

Yup ... I have the pre amplifier , but ended up never fitting it .. as after seting the set up, i found it was just fine as it was , and the other thing was, I could never get anyone with before and after observation on its effect on cross mod etc , as i live close to a 10 kw mw station which tends to zap my other rx's .. but this one has never showed any problems

G ...

587. Re: [Racal6790GM] Re: My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2007-02-28 13:53:55 UTC
From: FRANCIS CARCIA
Topic: 570 Message: 587

Sounds like you need to allign the receiver. There are a couple of gain settings that effect MDS. I have two wire antennas a coax fed 80 meter dipole and a 250 foot open wire line fed antenna. I can monitor signals on 137 KHz and retransmit them on 160 meters at legal limit AM and the two antennas are only 75 feet apart. I usually set the 3 dB 300 Hz. MDS around -130 dBM. This is a bit hotter than spec. I run a 12 element log on the higher bands with no problems with mds without an RF amp.

Graham <g0nbd@...> wrote: --- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
> All my Racals work the same within a dB or so of each other. MDS and dynamic range.
> I don't know about rice box quality. The only thing I see that varies is synthesizer phase noise due to variations in op amp performance. They are fairly close in performance though. fc
>
> richard bogusz <mml430@...> wrote:
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>
> After a few more hours of comparisons, one of these 6790's seems to be able to keep up with my ic775dsp(inrad roofing filters)... on 7mcs... and it aint shabby on 28mcs either...This really impresses and encourages me to go full bore on getting some better filters... I have read that these units are not overly sensitive.. well, in this semi-rural QTH sensitivity is not an issue, even at 28mcs, on one of these units.. the other is a tad down... What is really irritating, I have 2 unmodified 746pro's, one is a ic7400.. but the same thing... where one unit is considerably better than the other..... I often think there is a fair amount of luck involved when choosing between 2 identical units... Anyway thanks to everyone for their responses... its all good fun..
>
> Richard..
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never showed any problems

G ...

[Non-text portions of this message have been removed]

588. Thing□s ain□t always what they seem

Yahoo group: Racal6790GM
Date: 2007-02-28 16:15:34 UTC
From: Graham
Topic: 588 Message: 588

Thing's ain't always what they seem

Looking at the latest post's, a little point may have been overlooked
Military set's don't always make the best `ham' set's.

In commercial use, you would never of had a pile up with lots of
stations calling on top of and close by □hence the mostly `wide'
filters and very seldom would you have the tx and rx frequency's the
same, or have the tx and rx on the same site □ so no way to mute or
key the rx - The software has provision for remote addressing 100's
of sets at once , obviously a very versatile rx but `not' many of us
will have more than one .. or two..

This particular rx would of normally sat behind a ae distribution
system hence the slightly lower gain and no antistatic provisions in
the front end , I have the pre amp and these features are provided ,
its not that the sets bullet proof, it was just never designed to be
exposed to `static'

Ham use has been acknowledged as a severe environments for radio
equipment for a long time, How may of us have wondered why our ex-pmr
vhf fm radio runs so hot ? , while not admitting to rag-chewing for
15 minuets describing everything from the weather to last years
summer holiday in one over .. the average pmr transmission may be
abour 45 seconds .. Or complained over the lack of sensitivity, when
this is a design feature to limit communications to a local pool and
prevent cross modulation , ever monitored the pmr spectrum during
rush-hour in `big' town ?

But It's a good set, it dose what it says on the label !

It may be out preformed in some areas by some set's but if we are
honest its just that some functions have been refined to meet the
needs of `ham' use I've had mine a few years now and would say its
one of the best , put it this way, its heard vk on top band, it
still receives all the medium wave stations with the arrl bc filter
in series and the Indian navy vlf station on 18khz. None of these,
could I here on my skanti r5003 and that's part of the trp5000
certified as marine main installation but it dose have 2.7 Khz ssb
filters as standard its got to have one good point .. lol ..

G ..

Ps If you have never made anything in your life .. a static catcher
for the ae input would be a good place to start .. there is no
sacrificial rf stage !!

Pps thanks to Gary over there for locating the bits in the early days .. thats another good reason to keep the set .. if it go's bang .. there is a good chance of fixing it

589. As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-02-28 17:37:15 UTC
From: vze24dma
Topic: 589 Message: 589

Gents

I have been a member here since the beginning, post only rarely.

Seeing Frank G. get all cranked lately on the radio means he finally got his 2nd house done, and maybe even has an antenna up.

I am getting pretty much out of the HF hobby, and selling most of my rigs. Among other things, I am selling a 6790 that Gary W. put together for me new. Selling at a bargain price on ebay, under my seller name "triodes" Other stuff there too.

Good luck to all, Racal makes good stuff, I will have some 3700 series for sale later. Now, that is rare.

Cheerio

John E.
San Jose, CA

590. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-02-28 17:42:52 UTC
From: Carcia, Francis A HS
Topic: 589 Message: 590

Sorry John,
I took the winter off and about to start up again. Kitchen cabinets this spring and finish sheetrock. Then a mile of tape and plenty of mud. 3:00 PM I'm on the beach inspecting wild life. Maybe a CO this season....and antenna frank

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of vze24dma
Sent: Wednesday, February 28, 2007 12:37 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] As New 6790 for sale

Gents

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Cheerio

John E.
San Jose, CA

[Non-text portions of this message have been removed]

591. Several Things I Like About The 6790

Yahoo group: Racal6790GM
Date: 2007-02-28 18:21:02 UTC
From: toddroberts2001@aol.com
Topic: 591 Message: 591

As an owner/user of the 6790 for a number of years there are several things I really like about the radio.
1) Most everything is easy to reach on the PC Boards, no surface-mount components, makes servicing realtively easy using the factory manuals
2) Rock stable timebase after a short warmup, keeps the receiver on frequency within a Hz or two
3) Superb RF performance
4) Frequency display to 1Hz
5) Ability to use standard 455KHz IF Filters, many plug-in types available, makes it easy to customize the radio to your taste
6) Availabilty of new eproms to extend the tuning range to 0Hz, turns the 6790 into a great LF receiver also
7) Parts and service available from Gary Wingerd. Gary has done a great service to all of us who have had trouble with our 6790s, needed parts, service or even good advice. Thanks Gary!
8) All the great owners/operators I have corresponded with who have given help, advice and even custom parts to improve the radio

73 Todd WD4NGG

592. Re: [Racal6790GM] Thing☐s ain☐t always what they seem

Yahoo group: Racal6790GM
Date: 2007-02-28 17:38:22 UTC
From: FRANCIS CARCIA
Topic: 588 Message: 592

A good receiver doesn't need many knobs because it just works. The Receivers of this vintage are well designed and easy to fix. The PC boards don't fall apart the first time you put an iron to them. The weak link appears to be the epoxy electrolytic caps. They don't need an RF amplifier because they have good gain distribution. The Racal like Harris are the only ones with dual roofing filters. Get some tight ones and you will see real performance.
Muting is easy just open the speaker line. In the case of the 6830 you can get at the AGC from the rear panel. Unlike old ham junk you can monitor yourself without overloading the receiver into distortion from leakage through the TR relay. I have never found a need to mute the Racal maybe worse case drop the volume a bit so it doesn't cause feedback to the transmitter. I can peg the S meter and still hear clean audio.
I don't know about the 6790 but the 6830 is the first receiver that I have measured 100 dB of dynamic range (at 100 KHz). The tighter the roofing filters the better the close in measures.
Good dynamic range and you don't need all the weird knobs and crazy functions.
I have never seen a noise blanker that worked well.
The cool thing about the 6790 is there is plenty of room under the hood to play. There is a lot more performance possible with the right hardware.
The only thing I would have done differently would have been a better second mixer and relay switching around the filters to get the full ultimate rejection performance of the filters. gfz

Graham <g0nbd@...> wrote:
Thing's ain't always what they seem

Looking at the latest post's, a little point may have been overlooked
Military set's don't always make the best `ham' set's.

In commercial use, you would never of had a pile up with lots of
stations calling on top of and close by ☐hence the mostly `wide'
filters and very seldom would you have the tx and rx frequency's the
same, or have the tx and rx on the same site ☐ so no way to mute or
key the rx - The software has provision for remote addressing 100's
of sets at once , obviously a very versatile rx but `not' many of us
will have more than one .. or two..

This particular rx would of normally sat behind a ae distribution
system hence the slightly lower gain and no antistatic provisions in
the front end , I have the pre amp and these features are provided ,
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equipment for a long time, How may of us have wondered why our ex-pmr
vhf fm radio runs so hot ? , while not admitting to rag-chewing for
15 minuets describing everything from the weather to last years

summer holiday in one over .. the average pmr transmission may be abour 45 seconds .. Or complained over the lack of sensitivity, when this is a design feature to limit communications to a local pool and prevent cross modulation , ever monitored the pmr spectrum during rush-hour in `big' town ?

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It may be out preformed in some areas by some set's but if we are honest its just that some functions have been refined to meet the needs of `ham' use I've had mine a few years now and would say its one of the best , put it this way, its heard vk on top band, it still receives all the medium wave stations with the arrl bc filter in series and the Indian navy vlf station on 18khz. None of these, could I here on my skanti r5003 and that's part of the trp5000 certified as marine main installation but it dose have 2.7 Khz ssb filters as standard its got to have one good point .. lol ..

G ..

Ps If you have never made anything in your life .. a static catcher for the ae input would be a good place to start .. there is no sacrificial rf stage !!

Pps thanks to Gary over there for locating the bits in the early days .. thats another good reason to keep the set .. if it go's bang .. there is a good chance of fixing it

[Non-text portions of this message have been removed]

593. Re: [Racal6790GM] Thing□s ain□t always what they seem

Yahoo group: Racal6790GM
Date: 2007-02-28 20:46:47 UTC
From: richard bogusz
Topic: 588 Message: 593

Hi Graham..

Totally agree with your attitude towards Ex-Mil gear. But it is fun trying to make them something else... Being new to the 6790's, I have only just realized the reason why I find it an ideal set for my situation. In my first post I listed the sets I compared it with. There are the modified Hot-rods... ic775dsp, Drake r4c (Sherwood) etc and the Personal Favorites... ra1778, ra6790 & AOR7030+. The PF's are the sets I have running 24hrs and actually use. Why?.. I can set a rag-chew freq and leave them running all day without needing, or wanting, to adjust volume, filters, bandpass, notch's, dsp functions, noise limiters etc etc... all great for DX but a pain when all I want is to hear guys rattling on about nothing in the background. All the rigs are about 40 feet away from where I work in my studio and are remote controlled across the room... The audio from the PF's are ideal and will hear everything the Hot-Rods do but with less irritating features. Actually I have yet to
find a situation where the Hot-Rods can hear something the 6790 cannot hear (using 1.2kc) in a pile-up. I think I will leave the AGC alone.. it works almost as well as the aor7030+.. Its a fine piece of gear.. might start collecting Racals.

Richard

mml430@...

TV dinner still cooling?
Check out "Tonight's Picks" on Yahoo! TV.

[Non-text portions of this message have been removed]

594. Roofing Filters

Yahoo group: Racal6790GM
Date: 2007-02-28 21:51:11 UTC
From: mml430
Topic: 594 Message: 594

Just noticed that the yaesu Ft2000 has a "B" receiver IF of 40.455
with narrow roofing filter options..... Does anyone know whether these
would be useable in the 6790... have not had time to investigate further..

Richard..

595. Static Catcher

Yahoo group: Racal6790GM
Date: 2007-03-01 15:55:30 UTC
From: wb9njb
Topic: 595 Message: 595

Can someone direct me to a resource to build the "static catcher"?
What are the issues regarding the need for such a device. Would a
preselector between the antenna and the input address the issues?

596. Re: Static Catcher

Yahoo group: Racal6790GM
Date: 2007-03-02 02:19:28 UTC
From: toptyp19
Topic: 595 Message: 596

--- In Racal6790GM@yahoogroups.com, "wb9njb" <hunter.ellington@...> wrote:
>
> Can someone direct me to a resource to build the "static catcher"?
> What are the issues regarding the need for such a device. Would a
> preselector between the antenna and the input address the issues?
>
No, a preselector by itself won't do the job. You must be able to
bleed the static charge safely to a GOOD earth ground before it becomes
too large. Here's the url for the construction of a simple circuit:

http://www.hard-core-dx.com/nordicdx/antenna/special/antistat.html

GL, Joe-WA9LAE.

597. Re: [Racal6790GM] Static Catcher

Yahoo group: Racal6790GM
Date: 2007-03-02 00:58:00 UTC
From: FRANCIS CARCIA
Topic: 595 Message: 597

Preselector. The higher the Q the better it will handle noise. Rockwell, Cubic and Harris built pre-post selectors that are tunable in 10 kHz. steps The Racal unit used 1/3 octive filters so too wide to limit noise. A static catcher is a new term for me. gfz

wb9njb <hunter.ellington@...> wrote:
Can someone direct me to a resource to build the "static catcher"?
What are the issues regarding the need for such a device. Would a
preselector between the antenna and the input address the issues?

[Non-text portions of this message have been removed]

598. Re: [Racal6790GM] Re: Static Catcher

Yahoo group: Racal6790GM
Date: 2007-03-02 03:03:45 UTC
From: FRANCIS CARCIA
Topic: 595 Message: 598

Sorry, you want an RF choke. 2.5 MH should work fine. Antenna to ground. Any inductor with an Reactance(XL > that 200 ohms) at the lowest frequency you use should work fine.
XL in ohms=2 * pi * F * L (F in Hz and L in heneries) gfz

toptyp19 <toptyp19@...> wrote:
--- In Racal6790GM@yahoogroups.com, "wb9njb" <hunter.ellington@...> wrote:
>
> Can someone direct me to a resource to build the "static catcher"?
> What are the issues regarding the need for such a device. Would a
> preselector between the antenna and the input address the issues?
>
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bleed the static charge safely to a GOOD earth ground before it becomes
too large. Here's the url for the construction of a simple circuit:

http://www.hard-core-dx.com/nordicdx/antenna/special/antistat.html

GL, Joe-WA9LAE.

[Non-text portions of this message have been removed]

599. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-02-28 19:44:55 UTC
From: Hunter Ellington
Topic: 589 Message: 599

John, Any matching speaker units for the 6790?

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@...
<mailto:hunter.ellington@...>

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Carcia, Francis A HS
Sent: Wednesday, February 28, 2007 10:43 AM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] As New 6790 for sale

Sorry John,
I took the winter off and about to start up again. Kitchen cabinets this
spring and finish sheetrock. Then a mile of tape and plenty of mud.
3:00 PM I'm on the beach inspecting wild life. Maybe a CO this
season....and antenna frank

From: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
[mailto:Racal6790GM@yahoogroups.com
<mailto:Racal6790GM%40yahoogroups.com>]
On Behalf Of vze24dma
Sent: Wednesday, February 28, 2007 12:37 PM
To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
Subject: [Racal6790GM] As New 6790 for sale

Gents

I have been a member here since the beginning, post only rarely.

Seeing Frank G. get all cranked lately on the radio means he finally
got his 2nd house done, and maybe even has an antenna up.

I am getting pretty much out of the HF hobby, and selling most of my
rigs. Among other things, I am selling a 6790 that Gary W. put
together for me new. Selling at a bargain price on ebay, under my
seller name "triodes" Other stuff there too.

Good luck to all, Racal makes good stuff, I will have some 3700 series for sale later. Now, that is rare.

Cheerio

John E.
San Jose, CA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

600. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-02 17:27:06 UTC
From: machine.age@juno.com
Topic: 589 Message: 600

Please note: message attached

Hello

I have tracked down Racal radios around the world for twenty years and have never heard of any matching speakers for the 6790. Nor are they in any Racal literature. The early Racal valve sets had a couple, for ship board applications.

jme

FREE Reminder Service - NEW from AmericanGreetings.com
Click HERE and never forget a Birthday or Anniversary again!
http://track.juno.com/s/lc?s=197335&u=http://www.americangreetings.com/products/online_calendar.pd?c=uol5752

[Non-text portions of this message have been removed]

601. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-02 17:19:57 UTC
From: Carcia, Francis A HS
Topic: 589 Message: 601

most guys go to Radio Shack and buy a nice little speaker in a case

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Hunter Ellington
Sent: Wednesday, February 28, 2007 2:45 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] As New 6790 for sale

John, Any matching speaker units for the 6790?

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
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hunter.ellington@...
<mailto:hunter.ellington%40gorrellgiles.com>
<mailto:hunter.ellington@...
<mailto:hunter.ellington%40gorrellgiles.com> >

From: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
[mailto:Racal6790GM@yahoogroups.com
<mailto:Racal6790GM%40yahoogroups.com>]
On Behalf Of Carcia, Francis A HS
Sent: Wednesday, February 28, 2007 10:43 AM
To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
Subject: RE: [Racal6790GM] As New 6790 for sale

Sorry John,
I took the winter off and about to start up again. Kitchen cabinets this
spring and finish sheetrock. Then a mile of tape and plenty of mud.
3:00 PM I'm on the beach inspecting wild life. Maybe a CO this
season....and antenna frank

From: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
<mailto:Racal6790GM%40yahoogroups.com>
[mailto:Racal6790GM@yahoogroups.com
<mailto:Racal6790GM%40yahoogroups.com>
<mailto:Racal6790GM%40yahoogroups.com>]

On Behalf Of vze24dma
Sent: Wednesday, February 28, 2007 12:37 PM
To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
<mailto:Racal6790GM%40yahoogroups.com>
Subject: [Racal6790GM] As New 6790 for sale

Gents

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Seeing Frank G. get all cranked lately on the radio means he finally got his 2nd house done, and maybe even has an antenna up.

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Good luck to all, Racal makes good stuff, I will have some 3700 series for sale later. Now, that is rare.

Cheerio

John E.
San Jose, CA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

602. Re: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-02 18:51:57 UTC
From: Dan Rae
Topic: 589 Message: 602

Carcia, Francis A HS wrote:

>most guys go to Radio Shack and buy a nice little speaker in a case
>_____
>
>
I did better than that I put a Racal Badge on one of the nice little RS metal cased speakers. That's going to fool a few folk in the future. Seriously though, I find my local thrift store a really good source of small speakers for $5 or less. I have a group of four of them on top of my Racal receiver rack, two Nakamichi, and two Sony. All sound really good.

There are Racal speakers, but they are only for the military packsets, and are small, waterproof, with built in amplifiers, muting on PTT, and sound really horrible...
73
Dan

603. Re: Static Catcher

Yahoo group: Racal6790GM
Date: 2007-03-02 16:23:16 UTC
From: Graham
Topic: 595 Message: 603

static being static, the inductore in parallel may not be ideal as
any pulse would not be dissipated .. may even be magnifed by
the 'q' .. however each to his own ! ive posted a description of a
device made by skanti marine which would compliment the link to the
device using a neon

G ..

--- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
> Sorry, you want an RF choke. 2.5 MH should work fine. Antenna to
ground. Any inductor with an Reactance(XL > that 200 ohms) at the
lowest frequency you use should work fine.
> XL in ohms=2 * pi * F * L (F in Hz and L in heneries) gfz
>
> toptyp19 <toptyp19@...> wrote:
> --- In Racal6790GM@yahoogroups.com, "wb9njb"
<hunter.ellington@> wrote:
> >
> > Can someone direct me to a resource to build the "static
catcher"?
> > What are the issues regarding the need for such a device. Would a
> > preselector between the antenna and the input address the issues?
> >
> No, a preselector by itself won't do the job. You must be able to
> bleed the static charge safely to a GOOD earth ground before it
becomes
> too large. Here's the url for the construction of a simple circuit:
>
> http://www.hard-core-dx.com/nordicdx/antenna/special/antistat.html
>
> GL, Joe-WA9LAE.
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

604. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-02 19:06:00 UTC
From: tony dinkel
Topic: 589 Message: 604

I have excellent luck with the Motorola two way radio speakers. They have a plastic case, slim line design with a big magnet and response that is tailored to communications intelligibility. The audio PA in the 6790 has no problem driving it to what I would call very loud with minimal distortion. They come with a matching mounting bracket which I use to mount it to the top of the rack. I don't like to use up rack space for speakers.

If you prefer a broader, near broadcast quality speaker I would suggest a Fostex 6301B Personal Audio Monitor. Drive it out of the 600 ohm line output and use the volume control on the speaker.

These both show up on Ebay from time to time.

Neither one of these match the mechanical design of the receiver. They are just what I find works well for me.

td
wb6mie
kfi

>
>most guys go to Radio Shack and buy a nice little speaker in a case
>_____
>
>From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
>On Behalf Of Hunter Ellington
>Sent: Wednesday, February 28, 2007 2:45 PM
>To: Racal6790GM@yahoogroups.com
>Subject: RE: [Racal6790GM] As New 6790 for sale
>
>
>
>John, Any matching speaker units for the 6790?

_____
Rates near 39yr lows! $430K Loan for $1,399/mo - Paying Too Much? Calculate new payment
http://www.lowermybills.com/lre/index.jsp?sourceid=lmb-9632-18226&moid=7581

605. Skanti marine supplied a 'antenna protection device' - described-

Yahoo group: Racal6790GM
Date: 2007-03-02 16:17:20 UTC
From: Graham
Topic: 605 Message: 605

Skanti marine supplied a antenna protection device , using solid state diodes and a inductor .

This device will not prevent static build up as in the link posted, but will protect against pulse and rf over load if you intend to use the set as part of a transmitting station

Uses 11 components :-

Diode IN4148 qty 6
Diode UM4001 qty 2
Cap 8200 pf qty 2 mica
Ind 0.38 uH qty 1

The layout follows a `cross' shape. with one in and one out socket.

The inductor is connected directly from the input to out put signal pins.
Picking one side of the inductor to be input and the other output , all other connections are made to the signal conductor at the output port.

The `active' components are arranged in two `mirror image groups' connected from the output signal path to earth., and are formed thus:-

3 of the IN4148 diodes are connected in series to form a chain anode to cathode One of the UM4001 pin diodes is connected in parallel with this chain, but in the opposite polarity . this forms a `assembly'

From the output signal connection, both of the 8,200 pf capacitors are connected, the free end of each in turn is connected to one end of the diode `assembly's' and the other end of the diode assembly is connected to earth.

After connecting one capacitor and diode chain, , the second diode assembly is connected to the other free capacitor and earth , but , THE DIODE POLARITY IS REVERSED . thus forming a cross shape layout.

The original item is fitted into a 3 inch box , the box forms the earth plane and is bonded to the rx chassis and earth , the chassis bonding is the more important as long leads would allow voltage gradiants to form.

Hope this is of use.

Graham ..

606. Re: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-02 20:04:24 UTC
From: Hunter Ellington
Topic: 589 Message: 606

Actually, I saw a Racal matching speaker unit in a picture on the web. I just can't find the site again. Thought some of you mavens might have run accross one as well.

Sent from my BlackBerry Wireless Device

-----Original Message-----
From: Racal6790GM@yahoogroups.com
To: Racal6790GM@yahoogroups.com
Sent: Fri Mar 02 11:51:57 2007
Subject: Re: [Racal6790GM] As New 6790 for sale

Carcia, Francis A HS wrote:

>most guys go to Radio Shack and buy a nice little speaker in a case
>_____
>
>
I did better than that I put a Racal Badge on one of the nice little RS metal cased speakers. That's going to fool a few folk in the future. Seriously though, I find my local thrift store a really good source of small speakers for $5 or less. I have a group of four of them on top of my Racal receiver rack, two Nakamichi, and two Sony. All sound really good.

There are Racal speakers, but they are only for the military packsets, and are small, waterproof, with built in amplifiers, muting on PTT, and sound really horrible...
73
Dan

[Non-text portions of this message have been removed]

607. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-03 21:49:15 UTC
From: Hunter Ellington
Topic: 589 Message: 607

And now for a tale of woe. I purchased a very nice RA6790GM with six nicely distributed Collins Mechanical filters installed. The vendor sent it by USPS due to some quirk with PayPal. I have a P.O. Box for my home address, and the vendor claimed that he could not ship the radio to my office address, which I usually use for such purposes, because it was not verified. So, being a good citizen, I go to PayPal to verify my address. They, in turn inform me that I have to give them a bank account to be verified. In my usual Celtic reaction to such highway robbery, I told them to pound sand. Alas, the radio was committed to the USPS system and was sent to my local post office. When I went to retrieve the radio from the Federalies, the young lady behind the counter disappeared only to return with the most abused box I have ever seen. Every panel was torn and smashed. Someone in the system had tried to use tape and yellow bands to restore integrity to the destroyed box. I called the vendor and asked him how he wanted to proceed. Should I decline delivery and have the carcass returned in the box, or should I accept and see how the radio did? He said accept, and if the radio survived, no harm, no foul. If the radio was damaged, he would make it good with another unit, and we would file the insurance claim. Well, I got the radio home, stripped the tatters of the box away, and unwrapped the bubble wrap to survey the damage. I cannot describe the damage accurately, and try as I may, I cannot visualize how they managed to do it. The right side of the radio was crushed, with the front and rear panels caved in about three inches. The chassis is bent, and the top and bottom covers crumpled. I opened it up, and amazingly, the circuit boards seem to be intact except for the keypad, and associated board connections. However, the six mechanical filters are unscathed. Such a tragic end to such a fine radio. The vendor does not want the carcass back, and if the Post Office does not take it with them in settling the claim, I may have some backup boards and some nice filters. I would have much preferred the radio in its original condition. Oh well, the vendor is sending me another radio from a lot he purchased, but this time by FedEx second day. We'll see if private enterprise can out do the government monopoly. And to think, these are the people who want to give us universal health coverage, or is it government assisted suicide. 73 all.

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax

hunter.ellington@...
<mailto:hunter.ellington@...>

_____

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Hunter Ellington
Sent: Friday, March 02, 2007 1:04 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] As New 6790 for sale

Actually, I saw a Racal matching speaker unit in a picture on the web. I
just can't find the site again. Thought some of you mavens might have
run accross one as well.

Sent from my BlackBerry Wireless Device

-----Original Message-----
From: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>

To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
Sent: Fri Mar 02 11:51:57 2007
Subject: Re: [Racal6790GM] As New 6790 for sale

Carcia, Francis A HS wrote:

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of my Racal receiver rack, two Nakamichi, and two Sony. All sound
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There are Racal speakers, but they are only for the military packsets,
and are small, waterproof, with built in amplifiers, muting on PTT, and
sound really horrible...
73
Dan

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

608. Re: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-03 23:22:07 UTC
From: Leigh Sedgwick
Topic: 589 Message: 608

Luck of the draw....I have used USPS Priority mail for shipping a
significant number of radios and other test electronics and I have never had
a problem. They were always received by me or the people I have shipped to
in great condition. It is nice you have a good supplier that will ship you
another radio before the claim is finalized. Better luck this time.

----- Original Message -----
From: "Hunter Ellington" <hunter.ellington@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, March 03, 2007 1:49 PM
Subject: RE: [Racal6790GM] As New 6790 for sale

> And now for a tale of woe. I purchased a very nice RA6790GM with six
> nicely distributed Collins Mechanical filters installed. The vendor
> sent it by USPS due to some quirk with PayPal. I have a P.O. Box for my
> home address, and the vendor claimed that he could not ship the radio to
> my office address, which I usually use for such purposes, because it was
> not verified. So, being a good citizen, I go to PayPal to verify my
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> the USPS system and was sent to my local post office. When I went to
> retrieve the radio from the Federalies, the young lady behind the
> counter disappeared only to return with the most abused box I have ever
> seen. Every panel was torn and smashed. Someone in the system had
> tried to use tape and yellow bands to restore integrity to the destroyed
> box. I called the vendor and asked him how he wanted to proceed.
> Should I decline delivery and have the carcass returned in the box, or
> should I accept and see how the radio did? He said accept, and if the
> radio survived, no harm, no foul. If the radio was damaged, he would
> make it good with another unit, and we would file the insurance claim.
> Well, I got the radio home, stripped the tatters of the box away, and
> unwrapped the bubble wrap to survey the damage. I cannot describe the
> damage accurately, and try as I may, I cannot visualize how they managed
> to do it. The right side of the radio was crushed, with the front and
> rear panels caved in about three inches. The chassis is bent, and the
> top and bottom covers crumpled. I opened it up, and amazingly, the
> circuit boards seem to be intact except for the keypad, and associated
> board connections. However, the six mechanical filters are unscathed.
> Such a tragic end to such a fine radio. The vendor does not want the
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>
>
>
> R. Hunter Ellington, Esq.
> Shareholder
>
> Gorrell Giles PC
> 1331 Seventeenth Street, Suite 1000
> Denver, Colorado 80202
> (303) 996-6585 Direct
> (303) 996-2680 Fax
> hunter.ellington@...
> <mailto:hunter.ellington@...>
>
>
>
> _____
>
> From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
> On Behalf Of Hunter Ellington
> Sent: Friday, March 02, 2007 1:04 PM
> To: Racal6790GM@yahoogroups.com
> Subject: Re: [Racal6790GM] As New 6790 for sale
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> -----Original Message-----
> From: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
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> To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
> Sent: Fri Mar 02 11:51:57 2007
> Subject: Re: [Racal6790GM] As New 6790 for sale
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> Carcia, Francis A HS wrote:
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> of my Racal receiver rack, two Nakamichi, and two Sony. All sound
> really good.
>
> There are Racal speakers, but they are only for the military packsets,
> and are small, waterproof, with built in amplifiers, muting on PTT, and
> sound really horrible...
> 73
> Dan
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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>

609. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-03 23:55:51 UTC
From: Ed Tanton
Topic: 589 Message: 609

I am curious who the vendor was? If he really does make it good,
that's someone I would want to file away as reliable/etc. You can
wait until it actually HAPPENS, but DO let us know.

Ed Tanton

website: http://www.n4xy.com

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

"Right is right, even if everyone is
against it; and wrong is wrong, even
if everyone is for it."

William Penn
---

610. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-04 03:02:19 UTC
From: Mil Radman
Topic: 589 Message: 610

I don't know if these files will post but here are 2
pics of a nicely homebrewed speaker set for the 6790.

Have a burning question?
Go to www.Answers.yahoo.com and get answers from real people who know.

[Non-text portions of this message have been removed]

611. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-04 03:27:38 UTC
From: gewingerd@netzero.com
Topic: 589 Message: 611

The Racal speaker units were MA6721 and were single and dual units in about 12 different colors. The most of them were black for the RA6830 receivers and light gray for RA6790/GM and RA6793A receivers. Stock numbers were 4100073-501 and 4100073-502.

Thanks,
Gary
The retired xracal guy

612. Re: [Racal6790GM] As New 6790 for sale - shipping mishap

Yahoo group: Racal6790GM
Date: 2007-03-04 03:28:30 UTC
From: toddroberts2001@aol.com
Topic: 612 Message: 612

It sounds like the 6790 was not properly packed. I would always specify double-boxing with new boxes and room in-between the boxes for 2-3 inches of padding, not just one box slipped over another, from someone I didn't know. I have never had a radio damaged when it was double-boxed but have received plenty of items that were damaged when they were only single-boxed.
A boxed radio should be able to survive a 3-foot drop to the ground with no damage. What works best for me is to wrap the radio completely with 2-3 inches of bubble wrap and place that inside a close fitting box. Then place that box inside a larger box with room for about 3 inches of styrofoam noodles all around and pack the noodles tightly so they cannot shift or settle during shipping.
Double-boxing enormously improves the survivability of a radio during shipping, even if the sender messes up and doesn't always use the right materials for packing.
73 Todd WD4NGG

613. Re: As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-04 03:42:57 UTC
From: maxhdrm2
Topic: 589 Message: 613

Feel free to post pictures to the photo section. I don't think yahoo
will post the attachments, Max
Ps let us know what the photo file name is.

--- In Racal6790GM@yahoogroups.com, Mil Radman <milradman@...> wrote:
>
> I don't know if these files will post but here are 2
> pics of a nicely homebrewed speaker set for the 6790.
>
>
>
>
>

> Have a burning question?
> Go to www.Answers.yahoo.com and get answers from real people who
know.
>
> [Non-text portions of this message have been removed]
>

614. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-04 04:31:38 UTC
From: Hunter Ellington
Topic: 589 Message: 614

I will be happy to share the name of the vendor as soon as we have the transaction completed. The radio was double boxed, wrapped in several layers of bubble wrap, and peanuts to boot. The damage I encountered was above and beyond the call of duty. To crush the 1/4 inch front panel, and the rear panel took more neglect than I can even comprehend. The Post Office lady asked why anyone would send a radio parcel post, as if it was negligence defined. I was speechless Please observe a minute of silence for a fine radio and its demise. I can't wait for the replacement. 73 all, and I will confirm the arrival of the replacement shortly, I hope.

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@...
<mailto:hunter.ellington@...>

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Ed Tanton
Sent: Saturday, March 03, 2007 4:56 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] As New 6790 for sale

I am curious who the vendor was? If he really does make it good, that's someone I would want to file away as reliable/etc. You can wait until it actually HAPPENS, but DO let us know.

Ed Tanton

website: http://www.n4xy.com <http://www.n4xy.com>

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"Right is right, even if everyone is
against it; and wrong is wrong, even
if everyone is for it."

William Penn

[Non-text portions of this message have been removed]

615. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-04 04:37:19 UTC
From: Hunter Ellington
Topic: 589 Message: 615

I was somewhat sure I was not hallucinating, for the most part.
Redundant, don't you think.

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@...
<mailto:hunter.ellington@...>

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of gewingerd@...
Sent: Saturday, March 03, 2007 8:28 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] As New 6790 for sale

The Racal speaker units were MA6721 and were single and dual units in
about 12 different colors. The most of them were black for the RA6830
receivers and light gray for RA6790/GM and RA6793A receivers. Stock
numbers were 4100073-501 and 4100073-502.

Thanks,
Gary
The retired xracal guy

[Non-text portions of this message have been removed]

616. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-04 04:46:46 UTC
From: Ed Tanton
Topic: 589 Message: 616

I have one of the dual-speaker MA-6721s to go with my RA6790/GM, and
it's a very nice looking combination.

Ed Tanton

website: http://www.n4xy.com

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

"Right is right, even if everyone is
against it; and wrong is wrong, even
if everyone is for it."

William Penn
---

617. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-04 21:01:33 UTC
From: Mil Radman
Topic: 589 Message: 617

I have posted 2 pics of a speaker unit in the photo
section (17 and 18). This pic came from Universal
Radio. I noticed there is already a picture of the
MA6721 posted by our list administrator.
Gary, is this the black speaker you refered to for the
RA6830 or is this a homebrew? It looks slightly
different.

John

--- "gewingerd@..." <gewingerd@...>
wrote:

> The Racal speaker units were MA6721 and were single
> and dual units in
> about 12 different colors. The most of them were
> black for the RA6830
> receivers and light gray for RA6790/GM and RA6793A
> receivers. Stock
> numbers were 4100073-501 and 4100073-502.
>
> Thanks,
> Gary
> The retired xracal guy
>
>

It's here! Your new message!
Get new email alerts with the free Yahoo! Toolbar.
http://tools.search.yahoo.com/toolbar/features/mail/

618. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-04 23:22:43 UTC
From: gewingerd@netzero.com
Topic: 589 Message: 618

I just looked at the picture and it looks like I do good work. I built the speaker unit about 5 or 6 years ago as a prototype.

Thanks,
Gary

619. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-04 23:14:06 UTC
From: gewingerd@netzero.com
Topic: 589 Message: 619

John,

The black unit was for the RA6830, it can have a switch on the front panel to turn the speaker on and off. No volume controls are on the units. Again you can have several different combinations, switch, no switch, color, dual and single, with handles, without handles, with name plates and without name plates. The units measure 3.5 inches by 19 inches with a grill, cover on the rear with a 9 pin d connector.

Thanks,
Gary

620. Re: [Racal6790GM] Re: Static Catcher

Yahoo group: Racal6790GM
Date: 2007-03-05 02:39:23 UTC
From: FRANCIS CARCIA
Topic: 595 Message: 620

I would like to see that one.

Graham <g0nbd@...> wrote:
static being static, the inductore in parallel may not be ideal as
any pulse would not be dissipated .. may even be magnifed by
the 'q' .. however each to his own ! ive posted a description of a
device made by skanti marine which would compliment the link to the
device using a neon

G ..

--- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
> Sorry, you want an RF choke. 2.5 MH should work fine. Antenna to
ground. Any inductor with an Reactance(XL > that 200 ohms) at the
lowest frequency you use should work fine.
> XL in ohms=2 * pi * F * L (F in Hz and L in heneries) gfz
>
> toptyp19 <toptyp19@...> wrote:
> --- In Racal6790GM@yahoogroups.com, "wb9njb"
<hunter.ellington@> wrote:
> >
> > Can someone direct me to a resource to build the "static
catcher"?
> > What are the issues regarding the need for such a device. Would a
> > preselector between the antenna and the input address the issues?
> >
> No, a preselector by itself won't do the job. You must be able to
> bleed the static charge safely to a GOOD earth ground before it
becomes
> too large. Here's the url for the construction of a simple circuit:
>
> http://www.hard-core-dx.com/nordicdx/antenna/special/antistat.html
>
> GL, Joe-WA9LAE.
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

621. Ruined in shipping

Yahoo group: Racal6790GM
Date: 2007-03-05 02:32:05 UTC
From: Geoff Fors
Topic: 621 Message: 621

Yes, as Todd says, double-boxing is the way to go. I have shipped and received thousands of items over the years and statistically, the worst treatment was committed by UPS, followed by the postal service. The best was FedEx Ground. However, everybody seems to have different results. I have had FedEx deliver to the wrong address, and in my neighborhood they use delivery contractors who often show up between 1100-0200 hours (!) It's a bit annoying to hear someone drive up and clunk about on your porch at midnight!

Regarding damage claims, if the item wasn't double boxed and packed to survive about a 6 foot drop to concrete, they will invariably deny the claim. However, PayPal offers protection up to various amounts as stated in the auction. If the item is received damaged, it falls under the "significantly not as described" category and they should refund you, but they usually want you to ship the carcass to the PayPal facility for inspection. This is hard to do if you have already had the carrier pick it up, because after inspection they will return it to the shipper, not you, although lately UPS and possibly others are using contract inspectors who come to your home. Remember the general common law rule that risk of loss is on the shipper, and go from there.

I wonder how many formerly really nice radios have been turned to trash in shipping. In most every case, we have to blame the shippers, but it really is a shame...

Geoff
WB6NVH

Looking for earth-friendly autos?
Browse Top Cars by "Green Rating" at Yahoo! Autos' Green Center.

[Non-text portions of this message have been removed]

622. Re: [Racal6790GM] Skanti marine supplied a 'antenna protection device' - described-

Yahoo group: Racal6790GM
Date: 2007-03-05 02:46:33 UTC
From: FRANCIS CARCIA
Topic: 605 Message: 622

The racal RA6830 uses diodes and linear regulators to bias each string. No current flows belaw about 5 volts plus and minus though. it is a limiter just like the pin diode. As the pin conducts the reisitance goes down. the 4148s isolate the C of the pin from the antenna and provide higher breakdown voltage for strong signals. fc

Graham <g0nbd@...> wrote: Skanti marine supplied a antenna protection device , using solid state diodes and a inductor .

This device will not prevent static build up as in the link posted,
but will protect against pulse and rf over load if you intend to use
the set as part of a transmitting station

Uses 11 components :-

Diode IN4148 qty 6
Diode UM4001 qty 2
Cap 8200 pf qty 2 mica
Ind 0.38 uH qty 1

The layout follows a `cross' shape. with one in and one out socket.

The inductor is connected directly from the input to out put signal
pins.
Picking one side of the inductor to be input and the other output ,
all other connections are made to the signal conductor at the output
port.

The `active' components are arranged in two `mirror image groups'
connected from the output signal path to earth., and are formed
thus:-

3 of the IN4148 diodes are connected in series to form a chain anode
to cathode One of the UM4001 pin diodes is connected in parallel
with this chain, but in the opposite polarity . this forms
a `assembly'

From the output signal connection, both of the 8,200 pf capacitors
are connected, the free end of each in turn is connected to one end
of the diode `assembly's' and the other end of the diode assembly is
connected to earth.

After connecting one capacitor and diode chain, , the second diode
assembly is connected to the other free capacitor and earth , but ,
THE DIODE POLARITY IS REVERSED . thus forming a cross shape layout.

The original item is fitted into a 3 inch box , the box forms the earth plane and is bonded to the rx chassis and earth , the chassis bonding is the more important as long leads would allow voltage gradiants to form.

Hope this is of use.

Graham ..

[Non-text portions of this message have been removed]

623. Re: Skanti marine supplied a 'antenna protection device' - described-

Yahoo group: Racal6790GM
Date: 2007-03-05 12:38:55 UTC
From: Graham
Topic: 605 Message: 623

The main rx uses a similar thing with diodes and a neon as a last ditch, this is a add on, which is designed to dissipate rf. Once the diodes conduct, the voltage at the output port is limited by the series impeadance of the inductor. you could fit a very small fuse in line with the input port as well , might just save the day if something go's 'very' wrong.

With one of these and the static 'trap' I think you would of done, with out going to active proctection like the relay in the 1772, as much as is needed to keep the front end safe.

NB : The staic device could be a long way from the set, this needs to be bonded to the set.

G ..

--- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
> The racal RA6830 uses diodes and linear regulators to bias each string. No current flows belaw about 5 volts plus and minus though. it is a limiter just like the pin diode. As the pin conducts the reisitance goes down. the 4148s isolate the C of the pin from the antenna and provide higher breakdown voltage for strong signals. fc
>
> Graham <g0nbd@...> wrote: Skanti marine supplied a antenna protection device , using solid
> state diodes and a inductor .
>
> This device will not prevent static build up as in the link posted,
> but will protect against pulse and rf over load if you intend to use
> the set as part of a transmitting station
>
> Uses 11 components :-
>
> Diode IN4148 qty 6
> Diode UM4001 qty 2
> Cap 8200 pf qty 2 mica
> Ind 0.38 uH qty 1
>
> The layout follows a `cross' shape. with one in and one out socket.
>
> The inductor is connected directly from the input to out put signal
> pins.
> Picking one side of the inductor to be input and the other output ,
> all other connections are made to the signal conductor at the

output
> port.
>
> The `active' components are arranged in two `mirror image groups'
> connected from the output signal path to earth., and are formed
> thus:-
>
> 3 of the IN4148 diodes are connected in series to form a chain
anode
> to cathode One of the UM4001 pin diodes is connected in parallel
> with this chain, but in the opposite polarity . this forms
> a `assembly'
>
> From the output signal connection, both of the 8,200 pf capacitors
> are connected, the free end of each in turn is connected to one end
> of the diode `assembly's' and the other end of the diode assembly
is
> connected to earth.
>
> After connecting one capacitor and diode chain, , the second diode
> assembly is connected to the other free capacitor and earth , but ,
> THE DIODE POLARITY IS REVERSED . thus forming a cross shape layout.
>
> The original item is fitted into a 3 inch box , the box forms the
> earth plane and is bonded to the rx chassis and earth , the chassis
> bonding is the more important as long leads would allow voltage
> gradiants to form.
>
> Hope this is of use.
>
> Graham ..
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

624. Re: [Racal6790GM] Ruined in shipping

Yahoo group: Racal6790GM
Date: 2007-03-05 15:20:32 UTC
From: gewingerd@netzero.com
Topic: 621 Message: 624

Bottom Line, If most of the cards are still good in side the
receiver, I can rebuild it!
I can and I have refurbished units with bullet holes in them, 1 that
a truck had run over and 1 that had been dropped from a moving
conveyor that had crushed all four corners on the receiver.
The one that the fork lift went through I had to put to sleep,
however the micro card was good and the front panel.

Thanks,
Gary

625. RE: [Racal6790GM] Ruined in shipping

Yahoo group: Racal6790GM
Date: 2007-03-06 00:08:48 UTC
From: Hunter Ellington
Topic: 621 Message: 625

I'll keep you posted. I am placing the insurance claim with the Post Office shortly. They want me to bring the box and the radio to them, as well as the packing materials. I hope to talk them out of keeping the corpse. If I am able to hold on to the remains, I'll call you.

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@...
<mailto:hunter.ellington@...>

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of gewingerd@...
Sent: Monday, March 05, 2007 8:21 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Ruined in shipping

Bottom Line, If most of the cards are still good in side the receiver, I can rebuild it!
I can and I have refurbished units with bullet holes in them, 1 that a truck had run over and 1 that had been dropped from a moving conveyor that had crushed all four corners on the receiver.
The one that the fork lift went through I had to put to sleep, however the micro card was good and the front panel.

Thanks,
Gary

626. Racal filters

Yahoo group: Racal6790GM
Date: 2007-03-06 21:29:37 UTC
From: hns_r
Topic: 626 Message: 626

Hello,
I am looking for the filters 08409 and 08410
These are the isb/lsb and isb/usb filters.
Thanks, Hans.

627. Re: [Racal6790GM] Ruined in shipping

Yahoo group: Racal6790GM
Date: 2007-03-06 23:36:54 UTC
From: Ed Tanton
Topic: 621 Message: 627

I'm curious Gary: how did the bullet holes happen?

At 10:20 AM 3/5/2007, you wrote:

Bottom Line, If most of the cards are still good in side the
receiver, I can rebuild it!
I can and I have refurbished units with bullet holes in them, 1 that
a truck had run over and 1 that had been dropped from a moving
conveyor that had crushed all four corners on the receiver.
The one that the fork lift went through I had to put to sleep,
however the micro card was good and the front panel.

Ed Tanton

website: http://www.n4xy.com (http://www.n4xy.com/)

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"Right is right, even if everyone is
against it; and wrong is wrong, even
if everyone is for it."

William Penn
---

628. Re: [Racal6790GM] Ruined in shipping

Yahoo group: Racal6790GM
Date: 2007-03-07 03:21:14 UTC
From: gewingerd@netzero.com
Topic: 621 Message: 628

Not sure, when I was working for RACAL in the mid 80's they had about 1000 receivers in the plant in different rooms that I was given to repair and turn around as fast as possible. The unit was found still in the box it was shipped in with 3 little bullet holes clean through the box, receiver and back out the other side. We replaced the metal and the A6A2 card, tested the receiver and away it went.
The worst thing I know of is the Air Force destroyed several hundred units by driving a bulldozer over them and selling them for scrap.

Thanks,
Gary

629. RE: [Racal6790GM] Ruined in shipping

Yahoo group: Racal6790GM
Date: 2007-03-07 04:09:56 UTC
From: Hunter Ellington
Topic: 621 Message: 629

That Air Force story reminds me of the numerous Collins rigs that were dumped in the drink as we left the VN. More's the loss. K/3/26

R. Hunter Ellington, Esq.
Shareholder

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Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@...
<mailto:hunter.ellington@...>

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of gewingerd@...
Sent: Tuesday, March 06, 2007 8:21 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Ruined in shipping

Not sure, when I was working for RACAL in the mid 80's they had about 1000 receivers in the plant in different rooms that I was given to repair and turn around as fast as possible. The unit was found still in the box it was shipped in with 3 little bullet holes clean through the box, receiver and back out the other side. We replaced the metal and the A6A2 card, tested the receiver and away it went.
The worst thing I know of is the Air Force destroyed several hundred units by driving a bulldozer over them and selling them for scrap.

Thanks,
Gary

630. Re: [Racal6790GM] Ruined in shipping

Yahoo group: Racal6790GM
Date: 2007-03-07 23:09:16 UTC
From: Ed Tanton
Topic: 621 Message: 630

THAT's the guy who needed 3 little bullet holes in him!!! (The guy
that ordered it-not the 'dozer operator.)

///snip
>The worst thing I know of is the Air Force destroyed several hundred
>units by driving a bulldozer over them and selling them for scrap.
>
>Thanks,
>Gary
>
>///snip

Ed Tanton

website: http://www.n4xy.com

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"Right is right, even if everyone is
against it; and wrong is wrong, even
if everyone is for it."

William Penn
---

631. RE: [Racal6790GM] Ruined in shipping

Yahoo group: Racal6790GM
Date: 2007-03-08 14:03:36 UTC
From: Carcia, Francis A HS
Topic: 621 Message: 631

reminds me of a Saturday morning at work. We used to give the local schools surplus stuff. It would be piled up in the parking lot so they could come and take it. I was coming out of work at noon and decided to check it out. As I pulled up a bucket loader was heading to the area from a different angle. I asked the guy in charge what was going on and quickly learned the pile was rejects and they were headed into the loader. I offered to help them by filling my truck. Many hams I know ended up with nice DVMs and wavetek generators cheap and I kept the best stuff for myself......HP3325A free was the best.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Ed Tanton
Sent: Wednesday, March 07, 2007 6:09 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Ruined in shipping

THAT's the guy who needed 3 little bullet holes in him!!! (The guy that ordered it-not the 'dozer operator.)

///snip
>The worst thing I know of is the Air Force destroyed several hundred
>units by driving a bulldozer over them and selling them for scrap.
>
>Thanks,
>Gary
>
>///snip

Ed Tanton

website: http://www.n4xy.com <http://www.n4xy.com>

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if everyone is for it."

William Penn
---

632. Preamp question

Yahoo group: Racal6790GM
Date: 2007-03-10 22:23:51 UTC
From: wb9njb
Topic: 632 Message: 632

I am considering purchasing an MFJ 1048 pre-selector to use with my 6790/gm, and other radios in my collection. How does this piece compare with the Ramsey preamps? Is the MFJ more flexible? Any input (no pun intended) will be appreciated.

633. Re: [Racal6790GM] Preamp question

Yahoo group: Racal6790GM
Date: 2007-03-11 23:51:49 UTC
From: Ed Tanton
Topic: 632 Message: 633

Personally, I do not feel that-for ordinary HF purposes-the 6790
needs a preamp. Regardless of that, adding amplification without
selectivity is not intelligent. If you must add gain to the front end
of a receiver, do not do so without adding RF selectivity.

Ed Tanton

website: http://www.n4xy.com

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"Right is right, even if everyone is
against it; and wrong is wrong, even
if everyone is for it."

William Penn
---

634. RE: [Racal6790GM] Preamp question

Yahoo group: Racal6790GM
Date: 2007-03-12 01:46:11 UTC
From: Hunter Ellington
Topic: 632 Message: 634

Ed,

Thanks for the input. I was actually looking to reduce the chance of RF overload load damage to the front end.

R. Hunter Ellington, Esq.
Shareholder

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Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@gorrellgiles.com
<mailto:hunter.ellington@...>

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Ed Tanton
Sent: Sunday, March 11, 2007 5:52 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Preamp question

Personally, I do not feel that-for ordinary HF purposes-the 6790 needs a preamp. Regardless of that, adding amplification without selectivity is not intelligent. If you must add gain to the front end of a receiver, do not do so without adding RF selectivity.

Ed Tanton

website: http://www.n4xy.com <http://www.n4xy.com>

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"Right is right, even if everyone is
against it; and wrong is wrong, even
if everyone is for it."

William Penn

---

635. Internal Spurs

Yahoo group: Racal6790GM
Date: 2007-03-13 00:12:41 UTC
From: Rick
Topic: 635 Message: 635

I recently picked up a second RA-6790GM that has a very high internal spurious noise level. The digital noise is high with a 50 ohm termination on the antenna connector. Particularly annoying are the strong spurs on all the even MHz, stronger than WWV even when the ionosphere is in good shape for the single hop from Colorado to Oregon.

The receiver passes BITE and operation is otherwise normal, although the gain seems much higher than my other RA-6790 so that AGC is active even at the noise floor. Perhaps someone cranked the gain (R26) way up to try and get the signals above all the internally generated garbage.

I suspect that a coax shield may be open on one of the internal signal connections around the input filter or first mixer.

This receiver was rebuilt for the previous owner by Gary last year, so I assume it was working properly when it left his bench and that something fairly simple has broken loose. Any comments would be appreciated before I tear into it.

My other RA6790 hears nothing at all across the 20 kHz to 30 MHz range with a 50 ohm termination on the antenna connection, and the only Racal-generated noise I have encountered is when using a 6m converter feeding the RA6790 with a dipole near the receiver. That picks up low-level radiated noise in the 50 MHz range as the synthesizer tunes.

Best Regards,

Rick kk7b

636. Re: [Racal6790GM] Internal Spurs

Yahoo group: Racal6790GM
Date: 2007-03-13 12:08:04 UTC
From: gewingerd@netzero.com
Topic: 635 Message: 636

Rick,

The first receiver sounds like a bad set of fets in the first mixer, you need to look at the 1s lo, 2nd lo and 1st and 2 mixer outputs to determine wee the noise starts. I suspect that the A2 mixer has a blown fet in it.
The second receiver sounds like the mixer box also may have some fets blown. If the receiver has the 9666 lo freq eproms then you can set the receiver to 0 KHz in CW, BFO to 1 KHz, monitor the audio out. This is the same way BITE is run. Tune the radio frequency higher and listen to the audio.
You can also try swapping the A2 cards and see what happens. I sell the FET IC cards for the receivers that replace the FET Transistors.

Gary

637. Re: [Racal6790GM] Internal Spurs

Yahoo group: Racal6790GM
Date: 2007-03-13 13:12:50 UTC
From: FRANCIS CARCIA
Topic: 635 Message: 637

Sounds like the radio with high spurs may have the gain set too high or there is a synthesizer problem. Try putting a signal into the radio after the first mixer at 40.455 MHz on both the dead one and the one making high noise. The one that appears dead sounde like the mixer is shot. You can run cables between both receivers to let the dead radio synthesizer provide the LO for the spur radio to isolate the problem between mixer or synthesizer. I think the radio can pass bite with a synthesizer pumping out phase noise.

Rick <kk7b@...> wrote: I recently picked up a second RA-6790GM that has a very high internal
spurious noise level. The digital noise is high with a 50 ohm
termination on the antenna connector. Particularly annoying are the
strong spurs on all the even MHz, stronger than WWV even when the
ionosphere is in good shape for the single hop from Colorado to Oregon.

The receiver passes BITE and operation is otherwise normal, although
the gain seems much higher than my other RA-6790 so that AGC is active
even at the noise floor. Perhaps someone cranked the gain (R26) way
up to try and get the signals above all the internally generated
garbage.

I suspect that a coax shield may be open on one of the internal signal
connections around the input filter or first mixer.

This receiver was rebuilt for the previous owner by Gary last year, so
I assume it was working properly when it left his bench and that
something fairly simple has broken loose. Any comments would be
appreciated before I tear into it.

My other RA6790 hears nothing at all across the 20 kHz to 30 MHz range
with a 50 ohm termination on the antenna connection, and the only
Racal-generated noise I have encountered is when using a 6m converter
feeding the RA6790 with a dipole near the receiver. That picks up low-
level radiated noise in the 50 MHz range as the synthesizer tunes.

Best Regards,

Rick kk7b

638. Memory batteries

Yahoo group: Racal6790GM
Date: 2007-03-14 00:00:06 UTC
From: Dan Rae
Topic: 458 Message: 638

Seeing someone offering these on eBay for $20 plus $6 shipping with no warranty prompts me to remind people that they are available from Mouser under part number 672-55615702 for $6.10 plus postage, no minimum order and they will use USPS if you ask. This is the NiMH drop in equivalent of the original, potentially leaky NiCad, and none of the ones I've fitted have given any trouble at all, going back several years.

I'm sure Gary W also offers the same new ones for a reasonable amount, if you want the seal of approval :^)

73
Dan

639. Tecnical handbook for RA1778 ?

Yahoo group: Racal6790GM
Date: 2007-03-13 20:06:55 UTC
From: Graham
Topic: 639 Message: 639

Tecnical handbook for RA1778 ? its similar to the RA1772 .

In the process of picking up a u/s RA1778 but no book's

Just a chance, has anyone a copy of the technical handbook for the RA1778 , that I can purchase a copy of ?

or any idea where to get one from ?

Rgds

graham ..

640. Re: Internal Spurs

Yahoo group: Racal6790GM
Date: 2007-03-14 05:51:34 UTC
From: Rick
Topic: 635 Message: 640

Thank you for the responses Gary and Francis. My first receiver description was not clear. I should have said: "it works perfectly, and is absolutely spur free from 0 to 30 MHz with a
50 ohm resistor on the antenna connection."

The problem is with my 2nd receiver, which has very high internally generated spurious noise. There are strong internally generated CW spurs on all the even MHz starting at 1.000, and strong computer-hash and spurs while tuning in between. The gain is also set very high, so that the AGC is active even at the noise floor on a quiet HF band--but that should be an easy adjustment.

After reading your responses regarding possible 1st mixer problems, I made some quick two-tone third order IMD measurements. In my experience, a bad FET in a balanced mixer greatly impacts mixer IMD. I used two signals at 14.060 and 14.080, and listened at both 14.040 and 14.100. Both the good RA6790 and the noisy RA6790 are about the same (very good) and a few dB better than the Kenwood TS570 sitting on the bench. I also checked for LO leakage out the antenna port on a spectrum analyzer as an indicator of mixer unbalance, and didn't see any LO leakage at all. These were easy tests to make with the receivers in the rack, and they seem to indicate that my mixer FETs are good. After I open up the noisy one I will check all of the front-end stages as suggested.

I also tuned the receiver up from 0 kHz on CW with the BFO at 1 kHz as suggested, and everything sounds the way I expect.

Thank you much for the responses, and I'll let you know what I find when I track down that noise.

Best Regards,

Rick

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Rick,
>
> The first receiver sounds like a bad set of fets in the first mixer,
> you need to look at the 1s lo, 2nd lo and 1st and 2 mixer outputs to
> determine wee the noise starts. I suspect that the A2 mixer has a
> blown fet in it.
> The second receiver sounds like the mixer box also may have some
> fets blown. If the receiver has the 9666 lo freq eproms then you can
> set the receiver to 0 KHz in CW, BFO to 1 KHz, monitor the audio out.
> This is the same way BITE is run. Tune the radio frequency higher and
> listen to the audio.
> You can also try swapping the A2 cards and see what happens. I sell
> the FET IC cards for the receivers that replace the FET Transistors.
>

> Gary
>

641. Re: [Racal6790GM] Re: Internal Spurs

Yahoo group: Racal6790GM
Date: 2007-03-14 13:46:06 UTC
From: FRANCIS CARCIA
Topic: 635 Message: 641

Rick,
Someone here posted the procedure for setting up the agc. Yes it sounds like someone has turned up the gain too far. You might also look into the ARRL method of measuring synthesizer phase noise.
What happens when you go into manual mode agc and turn it down? I would drop the gain back and run the phase noise test.
I know a broken shield near the input of the second mixer in the 6830 can cause a lot digital noise.
Two receivers allows one to swap modules around to isolate problems. frank

Rick <kk7b@...> wrote:
Thank you for the responses Gary and Francis. My first receiver description was not clear. I should have said: "it works perfectly, and is absolutely spur free from 0 to 30 MHz with a
50 ohm resistor on the antenna connection."

The problem is with my 2nd receiver, which has very high internally generated spurious noise. There are strong internally generated CW spurs on all the even MHz starting at 1.000, and strong computer-hash and spurs while tuning in between. The gain is also set very high, so that the AGC is active even at the noise floor on a quiet HF band--but that should be an easy adjustment.

After reading your responses regarding possible 1st mixer problems, I made some quick two-tone third order IMD measurements. In my experience, a bad FET in a balanced mixer greatly impacts mixer IMD. I used two signals at 14.060 and 14.080, and listened at both 14.040 and 14.100. Both the good RA6790 and the noisy RA6790 are about the same (very good) and a few dB better than the Kenwood TS570 sitting on the bench. I also checked for LO leakage out the antenna port on a spectrum analyzer as an indicator of mixer unbalance, and didn't see any LO leakage at all. These were easy tests to make with the receivers in the rack, and they seem to indicate that my mixer FETs are good. After I open up the noisy one I will check all of the front-end stages as suggested.

I also tuned the receiver up from 0 kHz on CW with the BFO at 1 kHz as suggested, and everything sounds the way I expect.

Thank you much for the responses, and I'll let you know what I find when I track down that noise.

Best Regards,

Rick

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Rick,
>
> The first receiver sounds like a bad set of fets in the first mixer,

> you need to look at the 1s lo, 2nd lo and 1st and 2 mixer outputs to
> determine wee the noise starts. I suspect that the A2 mixer has a
> blown fet in it.
> The second receiver sounds like the mixer box also may have some
> fets blown. If the receiver has the 9666 lo freq eproms then you can
> set the receiver to 0 KHz in CW, BFO to 1 KHz, monitor the audio out.
> This is the same way BITE is run. Tune the radio frequency higher and
> listen to the audio.
> You can also try swapping the A2 cards and see what happens. I sell
> the FET IC cards for the receivers that replace the FET Transistors.
>
> Gary
>

642. Re: Internal Spurs

Yahoo group: Racal6790GM
Date: 2007-03-14 18:02:46 UTC
From: Rick
Topic: 635 Message: 642

Hi Frank,
I'll look up that agc procedure. I don't think the synthesizer phase noise is abnormal, because that would limit my two-tone IM3--but I could be wrong. A broken shield someplace in the signal path is the next thing I'll check. Thanks again for the guidance.
Rick

--- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
> Rick,
> Someone here posted the procedure for setting up the agc. Yes it sounds like someone has turned up the gain too far. You might also look into the ARRL method of measuring synthesizer phase noise.
> What happens when you go into manual mode agc and turn it down? I would drop the gain back and run the phase noise test.
> I know a broken shield near the input of the second mixer in the 6830 can cause a lot digital noise.
> Two receivers allows one to swap modules around to isolate problems. frank
>
> Rick <kk7b@...> wrote:
> Thank you for the responses Gary and Francis. My first receiver description was not clear.
> I should have said: "it works perfectly, and is absolutely spur free from 0 to 30 MHz with
a
> 50 ohm resistor on the antenna connection."
>
> The problem is with my 2nd receiver, which has very high internally generated spurious
> noise. There are strong internally generated CW spurs on all the even MHz starting at
> 1.000, and strong computer-hash and spurs while tuning in between. The gain is also set
> very high, so that the AGC is active even at the noise floor on a quiet HF band--but that
> should be an easy adjustment.
>
> After reading your responses regarding possible 1st mixer problems, I made some quick
> two-tone third order IMD measurements. In my experience, a bad FET in a balanced mixer
> greatly impacts mixer IMD. I used two signals at 14.060 and 14.080, and listened at both
> 14.040 and 14.100. Both the good RA6790 and the noisy RA6790 are about the same
> (very good) and a few dB better than the Kenwood TS570 sitting on the bench. I also
> checked for LO leakage out the antenna port on a spectrum analyzer as an indicator of
> mixer unbalance, and didn't see any LO leakage at all. These were easy tests to make with
> the receivers in the rack, and they seem to indicate that my mixer FETs are good. After I
> open up the noisy one I will check all of the front-end stages as suggested.

>
> I also tuned the receiver up from 0 kHz on CW with the BFO at 1 kHz as suggested, and
> everything sounds the way I expect.
>
> Thank you much for the responses, and I'll let you know what I find when I track down
that
> noise.
>
> Best Regards,
>
> Rick
>
> --- In Racal6790GM@yahoogroups.com, "gewingerd@" <gewingerd@> wrote:
> >
> > Rick,
> >
> > The first receiver sounds like a bad set of fets in the first mixer,
> > you need to look at the 1s lo, 2nd lo and 1st and 2 mixer outputs to
> > determine wee the noise starts. I suspect that the A2 mixer has a
> > blown fet in it.
> > The second receiver sounds like the mixer box also may have some
> > fets blown. If the receiver has the 9666 lo freq eproms then you can
> > set the receiver to 0 KHz in CW, BFO to 1 KHz, monitor the audio out.
> > This is the same way BITE is run. Tune the radio frequency higher and
> > listen to the audio.
> > You can also try swapping the A2 cards and see what happens. I sell
> > the FET IC cards for the receivers that replace the FET Transistors.
> >
> > Gary
> >
>

643. Re: [Racal6790GM] Re: Internal Spurs

Yahoo group: Racal6790GM
Date: 2007-03-14 20:33:32 UTC
From: FRANCIS CARCIA
Topic: 635 Message: 643

Rick I read somewhere that Racal had a batch of bad reference oscillators at one time. You might try an external reference from the clean one driving the dirty one as a test. I'm not shure how to do it in a 6790.

Rick <kk7b@...> wrote:
Hi Frank,
I'll look up that agc procedure. I don't think the synthesizer phase noise is abnormal, because that would limit my two-tone IM3--but I could be wrong. A broken shield someplace in the signal path is the next thing I'll check. Thanks again for the guidance.
Rick

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> Rick,
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> What happens when you go into manual mode agc and turn it down? I would drop the gain back and run the phase noise test.
> I know a broken shield near the input of the second mixer in the 6830 can cause a lot digital noise.
> Two receivers allows one to swap modules around to isolate problems. frank
>
> Rick <kk7b@...> wrote:
> Thank you for the responses Gary and Francis. My first receiver description was not clear.
> I should have said: "it works perfectly, and is absolutely spur free from 0 to 30 MHz with
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> 50 ohm resistor on the antenna connection."
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> The problem is with my 2nd receiver, which has very high internally generated spurious
> noise. There are strong internally generated CW spurs on all the even MHz starting at
> 1.000, and strong computer-hash and spurs while tuning in between. The gain is also set
> very high, so that the AGC is active even at the noise floor on a quiet HF band--but that
> should be an easy adjustment.
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> After reading your responses regarding possible 1st mixer problems, I made some quick
> two-tone third order IMD measurements. In my experience, a bad FET in a balanced mixer
> greatly impacts mixer IMD. I used two signals at 14.060 and 14.080, and listened at both
> 14.040 and 14.100. Both the good RA6790 and the noisy RA6790 are about the same
> (very good) and a few dB better than the Kenwood TS570 sitting on the bench. I also

> checked for LO leakage out the antenna port on a spectrum analyzer as an indicator of
> mixer unbalance, and didn't see any LO leakage at all. These were easy tests to make
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> the receivers in the rack, and they seem to indicate that my mixer FETs are good. After I
> open up the noisy one I will check all of the front-end stages as suggested.
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> I also tuned the receiver up from 0 kHz on CW with the BFO at 1 kHz as suggested, and
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that
> noise.
>
> Best Regards,
>
> Rick
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> --- In Racal6790GM@yahoogroups.com, "gewingerd@" <gewingerd@> wrote:
> >
> > Rick,
> >
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> > determine wee the noise starts. I suspect that the A2 mixer has a
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> > You can also try swapping the A2 cards and see what happens. I sell
> > the FET IC cards for the receivers that replace the FET Transistors.
> >
> > Gary
> >
>

644. Re: [Racal6790GM] Re: Internal Spurs

Yahoo group: Racal6790GM
Date: 2007-03-14 20:21:43 UTC
From: FRANCIS CARCIA
Topic: 635 Message: 644

Rick,
The IM will look good if you don't land near a spur. It would be easy to patch the synthesizer from one radio to the other LO input to verify the phase noise isn't synthesizer related.
I have a few SMB cables to do this when testing a receiver. You could also replace the synthesizer with a signal generator and do the same thing. A bad FET in the mixer will cause distortion as Gary said. fc

Rick <kk7b@...> wrote:
Hi Frank,
I'll look up that agc procedure. I don't think the synthesizer phase noise is abnormal, because that would limit my two-tone IM3--but I could be wrong. A broken shield someplace in the signal path is the next thing I'll check. Thanks again for the guidance.
Rick

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> I know a broken shield near the input of the second mixer in the 6830 can cause a lot digital noise.
> Two receivers allows one to swap modules around to isolate problems. frank
>
> Rick <kk7b@...> wrote:
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> I should have said: "it works perfectly, and is absolutely spur free from 0 to 30 MHz with
a
> 50 ohm resistor on the antenna connection."
>
> The problem is with my 2nd receiver, which has very high internally generated spurious
> noise. There are strong internally generated CW spurs on all the even MHz starting at
> 1.000, and strong computer-hash and spurs while tuning in between. The gain is also set
> very high, so that the AGC is active even at the noise floor on a quiet HF band--but that
> should be an easy adjustment.
>
> After reading your responses regarding possible 1st mixer problems, I made some quick
> two-tone third order IMD measurements. In my experience, a bad FET in a balanced mixer

> greatly impacts mixer IMD. I used two signals at 14.060 and 14.080, and listened at
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> 14.040 and 14.100. Both the good RA6790 and the noisy RA6790 are about the same
> (very good) and a few dB better than the Kenwood TS570 sitting on the bench. I also
> checked for LO leakage out the antenna port on a spectrum analyzer as an indicator of
> mixer unbalance, and didn't see any LO leakage at all. These were easy tests to make
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> the receivers in the rack, and they seem to indicate that my mixer FETs are good. After I
> open up the noisy one I will check all of the front-end stages as suggested.
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> I also tuned the receiver up from 0 kHz on CW with the BFO at 1 kHz as suggested, and
> everything sounds the way I expect.
>
> Thank you much for the responses, and I'll let you know what I find when I track down
that
> noise.
>
> Best Regards,
>
> Rick
>
> --- In Racal6790GM@yahoogroups.com, "gewingerd@" <gewingerd@> wrote:
> >
> > Rick,
> >
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> > you need to look at the 1s lo, 2nd lo and 1st and 2 mixer outputs to
> > determine wee the noise starts. I suspect that the A2 mixer has a
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> > listen to the audio.
> > You can also try swapping the A2 cards and see what happens. I sell
> > the FET IC cards for the receivers that replace the FET Transistors.
> >
> > Gary
> >
>

645. Re: [Racal6790GM] Re: Internal Spurs

Yahoo group: Racal6790GM
Date: 2007-03-15 00:24:01 UTC
From: Dan Rae
Topic: 635 Message: 645

FRANCIS CARCIA wrote:

> Rick I read somewhere that Racal had a batch of bad reference
> oscillators at one time.
> You might try an external reference from the clean one driving the
> dirty one as a test.
> I'm not shure how to do it in a 6790.
>
That was Dallas Lankford. He found his 5 MHz oven had a fault that was causing a single spurious response on either side of the carrier, probably not related to what Rick is seeing. If you do use an external reference, make sure the links are correctly set!
73
Dan

646. Re: [Racal6790GM] Tecnical handbook for RA1778 ?

Yahoo group: Racal6790GM
Date: 2007-03-15 22:19:50 UTC
From: gewingerd@netzero.com
Topic: 639 Message: 646

RA1778 would be the UK unit, RA6778 would be the US unit. The manuals would be the same, I will look in the shop and see if I have anymore.

Thanks,
Gary

647. Re: [Racal6790GM] Tecnical handbook for RA1778 ?

Yahoo group: Racal6790GM
Date: 2007-03-15 23:33:22 UTC
From: Dan Rae
Topic: 639 Message: 647

gewingerd@... wrote:

>RA1778 would be the UK unit, RA6778 would be the US unit. The manuals
>would be the same, I will look in the shop and see if I have anymore.
>
>
Gary, I hate to contradict you, but the UK RA1778, which is basically a
RA1772 with hardware memories, has little relevance to the US RA6778A or
B which is an RA6772E with the first F8 cpu controller added, from which
the later cpu driven radios were developed. I have both sitting here.
A book for the 6778A and B or will not help much at all with the 1778,
trust me.
73
Dan
ac6ao / g3ncr

648. Re: [Racal6790GM] Tecnical handbook for RA1778 ?

Yahoo group: Racal6790GM
Date: 2007-03-15 22:49:32 UTC
From: gewingerd@netzero.com
Topic: 639 Message: 648

Dan,

You may be correct ! The RA6778, RA6778C and RA6778Q are all different receivers than the RA1776 however more that 50% of the circuitry should be the same. The receiver controllers should be different however the RF, IF and audio paths should be the same. I have manuals for the RA6778 in stock, some 20 in the storage building.

Thanks,
Gary

649. Re: Tecnical handbook for RA1778 ?

Yahoo group: Racal6790GM
Date: 2007-03-15 23:46:08 UTC
From: mml430
Topic: 639 Message: 649

That is correct... the ra1778 is a ra1772 with memory channels..

Richard..

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> gewingerd@... wrote:
>
> >RA1778 would be the UK unit, RA6778 would be the US unit. The manuals
> >would be the same, I will look in the shop and see if I have anymore.
> >
> >
> Gary, I hate to contradict you, but the UK RA1778, which is basically a
> RA1772 with hardware memories, has little relevance to the US
RA6778A or
> B which is an RA6772E with the first F8 cpu controller added, from
which
> the later cpu driven radios were developed. I have both sitting here.
> A book for the 6778A and B or will not help much at all with the 1778,
> trust me.
> 73
> Dan
> ac6ao / g3ncr
>

650. Re: Tecnical handbook for RA1778 ?

Yahoo group: Racal6790GM
Date: 2007-03-16 11:36:36 UTC
From: Graham
Topic: 639 Message: 650

Ok thank's all

.. Well yes the set is the last of the 177-'s I have a full set of blue prints on 6 ft sheet's for the 1771/1772 which I kept hold of when I left racal in 1975 .

The 1778 was made after I left, and I know there is a changed in the display display board with two extra digits added for the 'MHz' and the memory switch. i would think the signal path would be the same .

Ive not seen the set yet, but the 'afc' option may be a digital version , if it is, hopefully will be covered in the 1778 book.

Thanks for you help.

G ..

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Dan,
>
> You may be correct ! The RA6778, RA6778C and RA6778Q are all
> different receivers than the RA1776 however more that 50% of the
> circuitry should be the same. The receiver controllers should be
> different however the RF, IF and audio paths should be the same.
> I have manuals for the RA6778 in stock, some 20 in the storage
> building.
>
> Thanks,
> Gary
>

651. Re: [Racal6790GM] Technical handbook for RA1778 ?

Yahoo group: Racal6790GM
Date: 2007-03-16 15:24:10 UTC
From: Dan Rae
Topic: 639 Message: 651

gewingerd@... wrote:

>Dan,
>
> You may be correct ! The RA6778, RA6778C and RA6778Q are all
>different receivers than the RA1776 however more that 50% of the
>circuitry should be the same. The receiver controllers should be
>different however the RF, IF and audio paths should be the same.
>I have manuals for the RA6778 in stock, some 20 in the storage
>building.
>
>
Yes, I bought one from you many moons ago, and very useful it was when I acquired the 6778 that had been sitting in the RCI service department for years being raided for parts. That thing had more faults than I can now remember, mercifully.

Much more useful for the 1778 will be the manual for the 1772 though, that is about 90% the same as for the 1778. The only thing that is really common in the later US ones is the frequencies in the conversion scheme, and maybe the second mixer. The 6772E and 6778 saw the first appearance of the sealed first mixer can also. The rest is history!

I do not have the book for the 1778 or I would have volunteered it by now.
73
Dan

652. Racal RA6772

Yahoo group: Racal6790GM
Date: 2007-03-17 03:34:40 UTC
From: talkophonez
Topic: 652 Message: 652

Would anyone have a copy of the operating manual? Or know where I can get one? Any help would be appreciated.

Regards
Larry Strong

653. Schroff Cabinet for RA-6790/GM

Yahoo group: Racal6790GM
Date: 2007-03-19 14:20:22 UTC
From: c6ani
Topic: 653 Message: 653

New to the list and the RA-6790/GM.

Wanting to know if the desk top can be obtained from you and at what cost.Do you have a housing which would house a MA-6721; the Racal dual speaker unit?Shipping would be to a 33309 Zip code.

If I can get a cabinet, what mounting hardware do you supply or do I have to purchase?

Thank you.

Vy 73,

C6ANI Ric.

654. Schroff Cabinet for RA-6790/GM

Yahoo group: Racal6790GM
Date: 2007-03-19 14:21:09 UTC
From: c6ani
Topic: 653 Message: 654

New to the list and the RA-6790/GM.

Wanting to know if the desk top can be obtained from you and at what cost.Do you have a housing which would house a MA-6721; the Racal dual speaker unit?Shipping would be to a 33309 Zip code.

If I can get a cabinet, what mounting hardware do you supply or do I have to purchase?

Thank you.

Vy 73,

C6ANI Ric.

655. Roofing Filters

Yahoo group: Racal6790GM
Date: 2007-03-19 14:33:29 UTC
From: Carcia, Francis A HS
Topic: 653 Message: 655

Hi All,
Want to see something cool Check out Networks International web site.
They make an 8 pole 6 KHz roofing filter that looks like it would drop
right in.
I sent them an email last week but no response yet. Imagine a pair of
those guys in the first IF. I guess they only respond if you want a
hundred of them. fc

656. Have the Ra177's sets moved into the vintage radio class ?

Yahoo group: Racal6790GM
Date: 2007-03-19 13:57:29 UTC
From: Graham
Topic: 656 Message: 656

Just seen an amazing sight ...

RA1772 on ebay sold for

Winning bid: EUR 1,378.00 .. $ 1,833.15 USD .. £944.09 uk

G ..

657. ROOFERS

Yahoo group: Racal6790GM
Date: 2007-03-19 18:08:46 UTC
From: billw77aaz
Topic: 657 Message: 657

"Roofing Filters
Posted by: "Carcia, Francis A

Hi All, Want to see something cool Check out Networks International web site. They make an 8 pole 6 KHz roofing filter that looks like it would drop right in.

I sent them an email last week but no response yet. Imagine a pair of those guys in the first IF. I guess they only respond if you want a hundred of them."

Well if they DO respond, you can say "how much for two sets?" 'cause if they were at all reasonable I'd be interested too.

Bill - W7AAZ

658. Re: [Racal6790GM] ROOFERS

Yahoo group: Racal6790GM
Date: 2007-03-19 18:23:14 UTC
From: Dan Rae
Topic: 657 Message: 658

billw77aaz wrote:

>Well if they DO respond, you can say "how much for two sets?" 'cause
>if they were at all reasonable I'd be interested too.
>
>Bill - W7AAZ
>
>
>
So would I, but methinks I'd be more likely to see a flying pig first!
There is an 8 kHz Racal one fitted to some 6790/GMs but I've only ever
seen the one, and I'm keeping that.
73
Dan
ac6ao

659. RE: [Racal6790GM] ROOFERS

Yahoo group: Racal6790GM
Date: 2007-03-19 18:27:04 UTC
From: Carcia, Francis A HS
Topic: 657 Message: 659

I have 3 of them they sell the 8 KHz units and I found a 6 KHz unit. I bet they go for over $200. fc

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Dan Rae
Sent: Monday, March 19, 2007 2:23 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] ROOFERS

billw77aaz wrote:

>Well if they DO respond, you can say "how much for two sets?" 'cause
>if they were at all reasonable I'd be interested too.
>
>Bill - W7AAZ
>
>
>
So would I, but methinks I'd be more likely to see a flying pig first! There is an 8 kHz Racal one fitted to some 6790/GMs but I've only ever seen the one, and I'm keeping that.
73
Dan
ac6ao

660. Re: [Racal6790GM] ROOFERS

Yahoo group: Racal6790GM
Date: 2007-03-19 19:03:42 UTC
From: toddroberts2001@aol.com
Topic: 657 Message: 660

In a message dated 3/19/2007 1:11:47 PM Eastern Standard Time, w7aaz@...
writes:
"Roofing Filters
Posted by: "Carcia, Francis A

Hi All, Want to see something cool Check out Networks International
web site. They make an 8 pole 6 KHz roofing filter that looks like it
would drop right in.

I sent them an email last week but no response yet. Imagine a pair of
those guys in the first IF. I guess they only respond if you want a
hundred of them."

Well if they DO respond, you can say "how much for two sets?" 'cause
if they were at all reasonable I'd be interested too.

Bill - W7AAZ

HI, Also keep in mind that INRAD can make up special order crystal filters,
including roofing filters, but they require a minumum 10 piece order. If a
couple of fellows wanted to go into an order together, the price might be in the
$100-$150 range each filter.

73 Todd WD4NGG

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661. Schroff Cabinet for sale

Yahoo group: Racal6790GM
Date: 2007-03-19 21:36:56 UTC
From: vze24dma
Topic: 661 Message: 661

I have a Scroff cabinet for sale. Its the correct one for the Racal 6790 or its brothers. Its the model with the flip up feet, paid $350.00 for it. Cannot find the feet kit. As is, brand new, will take $100. for it firm. Next place it goes is ebay. Email me at machine.age@....

John

662. Re: [Racal6790GM] Schroff Cabinet for sale

Yahoo group: Racal6790GM
Date: 2007-03-20 01:01:52 UTC
From: Leigh Sedgwick
Topic: 661 Message: 662

I'd take it if still available?

----- Original Message -----
From: "vze24dma" <machine.age@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Monday, March 19, 2007 2:36 PM
Subject: [Racal6790GM] Schroff Cabinet for sale

>I have a Scroff cabinet for sale. Its the correct one for the Racal
> 6790 or its brothers. Its the model with the flip up feet, paid
> $350.00 for it. Cannot find the feet kit. As is, brand new, will take
> $100. for it firm. Next place it goes is ebay. Email me at
> machine.age@....
>
> John
>
>
>
>
>
> Yahoo! Groups Links
>
>
>

663. Re: [Racal6790GM] Schroff Cabinet for sale

Yahoo group: Racal6790GM
Date: 2007-03-20 17:51:49 UTC
From: machine.age@juno.com
Topic: 661 Message: 663
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

664. ROOFER

Yahoo group: Racal6790GM
Date: 2007-03-20 19:04:44 UTC
From: billw77aaz
Topic: 664 Message: 664

A Racal roofer would be worth obtaining, on the (I think) reasonable assumption that it was designed to have a third-order intercept that did not degrade the receiver intercept, and insertion loss that did not degrade the NF (very much).

One couldn't make that assumption on just "any" filter. I've heard from a fairly knowledgeable FT1000 owner, a professional RF engineer, that the input intercept of his receiver was degraded by the narrower Inrad roofing filter. And I think its insertion loss is higher than the stock roofer.

If I HAD to have a narrower roofer, I'd order my own crystals for a simple two or three pole roofer with 4 KHz bandwidth. Feed the mixer into the filter, follow it with a 1.2 dB NF amplifier having 6 dB of gain, then reinjecting the signals into the existing 20 KHz wide roofer would be the way to go.

Bill

665. Re: [Racal6790GM] ROOFER

Yahoo group: Racal6790GM
Date: 2007-03-20 19:30:02 UTC
From: Dan Rae
Topic: 664 Message: 665

billw77aaz wrote:

>A Racal roofer would be worth obtaining, on the (I think) reasonable
>assumption that it was designed to have a third-order intercept that
>did not degrade the receiver intercept, and insertion loss that did
>not degrade the NF (very much).
>
>One couldn't make that assumption on just "any" filter. I've heard
>from a fairly knowledgeable FT1000 owner, a professional RF engineer,
>that the input intercept of his receiver was degraded by the narrower
>Inrad roofing filter. And I think its insertion loss is higher than
>the stock roofer.
>
>
Bill,
I have the version that has the original Racal VLF extension option, not just the eproms. It is interesting that they put a 16 kHz roofer first and then followed that with with the 8 kHz one on the second mixer board. I'm assuming the reason for this was to avoid the sort of impedance fluctations that the narrow filter would show at the edges of the passband from affecting the mixer.

One of these days I plan to put an H-mode mixer in a 6790/GM, followed by two hybridised narrow roofers. I suspect that the synthesiser phase noise may well be the limitig factor in this radio anyway, so it may not be worth it. And anyway I have to finish the PicaStar first, not to mention all the other projects!

73
Dan
ac6ao / g3ncr

666. RE: [Racal6790GM] ROOFER

Yahoo group: Racal6790GM
Date: 2007-03-20 19:43:36 UTC
From: Carcia, Francis A HS
Topic: 664 Message: 666

I have the 8 KHz in both the first mixer and first IF of my Hot Rod RA6830. I measure right around 100 dB dynamic range at 10 KHz spacing with a homebrew second mixer that is modified DF mixer module. I still can improve the performance close in before phase noise is a problem.
gfz

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Dan Rae
Sent: Tuesday, March 20, 2007 3:30 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] ROOFER

billw77aaz wrote:

>A Racal roofer would be worth obtaining, on the (I think) reasonable
>assumption that it was designed to have a third-order intercept that
>did not degrade the receiver intercept, and insertion loss that did
>not degrade the NF (very much).
>
>One couldn't make that assumption on just "any" filter. I've heard
>from a fairly knowledgeable FT1000 owner, a professional RF engineer,
>that the input intercept of his receiver was degraded by the narrower
>Inrad roofing filter. And I think its insertion loss is higher than
>the stock roofer.
>
>
Bill,
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be worth it. And anyway I have to finish the PicaStar first, not to mention all the other projects!

73
Dan
ac6ao / g3ncr

667. Re: [Racal6790GM] Schroff Cabinet for sale

Yahoo group: Racal6790GM
Date: 2007-03-20 20:28:40 UTC
From: Hans R
Topic: 661 Message: 667

Hello,
What do you mean with the hardware kit for it?
Is the cabinet not complete? dou you have pictures of it?
I am from the Netherlands.
Best 73's Hans

"machine.age@..." <machine.age@...> wrote:

Please note: message attached

Its absolutely new, I bought 3, used two. Cannot find the hardware kit
for it, get from Schroff. Paid 350. each for them. Will cost $35.00 to
ship, as it is oversize. Paypal me $135.00 to this paypal ID:
machine.age@.... I am assuming you are in the USA. There are
five more people wanting this behind you, so let me know asap.

John England Jr.
Milpitas, Calif.

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http://track.juno.com/s/lc?s=198954&u=http://www.usatoday.com/news/front.htm?csp=24

To: <Racal6790GM@yahoogroups.com>
From: "Leigh Sedgwick" <bipi@...>
Date: Mon, 19 Mar 2007 18:01:52 -0700
Subject: Re: [Racal6790GM] Schroff Cabinet for sale

I'd take it if still available?

----- Original Message -----
From: "vze24dma" <machine.age@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Monday, March 19, 2007 2:36 PM
Subject: [Racal6790GM] Schroff Cabinet for sale

>I have a Scroff cabinet for sale. Its the correct one for the Racal
> 6790 or its brothers. Its the model with the flip up feet, paid
> $350.00 for it. Cannot find the feet kit. As is, brand new, will take
> $100. for it firm. Next place it goes is ebay. Email me at
> machine.age@....
>
> John
>
>
>

>
>
> Yahoo! Groups Links
>
>
>

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668. Re: [Racal6790GM] Schroff Cabinet for sale

Yahoo group: Racal6790GM
Date: 2007-03-20 19:57:52 UTC
From: bipi@comcast.net
Topic: 661 Message: 668

Sorry John,

I see you did send this to me. PayPal on its way. Thank you.

73 de Mike
K7PI

-------------- Original message --------------
From: "machine.age@..." <machine.age@...>

>
>
> Please note: message attached
>
> Its absolutely new, I bought 3, used two. Cannot find the hardware kit
> for it, get from Schroff. Paid 350. each for them. Will cost $35.00 to
> ship, as it is oversize. Paypal me $135.00 to this paypal ID:
> machine.age@.... I am assuming you are in the USA. There are
> five more people wanting this behind you, so let me know asap.
>
> John England Jr.
> Milpitas, Calif.
>
>
> _____
> Interested in getting caught up on today's news?
> Click here to checkout USA TODAY Headlines.
> http://track.juno.com/s/lc?s=198954&u=http://www.usatoday.com/news/front.htm?csp
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> Yahoo! Groups Links
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669. Re: [Racal6790GM] ROOFER

Yahoo group: Racal6790GM
Date: 2007-03-20 19:22:34 UTC
From: FRANCIS CARCIA
Topic: 664 Message: 669

Anybody out there have the third order specs on the Racal Rooking Filter. Collins mechaincal filters at 455 KHz are rated at plus 30 IP3. Racal 455 KHz.Crystal filters are rated -60 dB for two signals at -10 dBM. I think that is in bandpass though if I remember. I need to get around to measuring it someday. The best dynamic range I have ever measured with a Racal roofer was 105 dB. I suspected the filter was the limiting factor but my test set up was taxed as well. I looked at the Inrad site and was not impressed.
It isn't easy to build a crystal filter.
I would think the NF would improve with a tighter roofer if the loss was the same. gfz

billw77aaz <w7aaz@...> wrote:
A Racal roofer would be worth obtaining, on the (I think) reasonable assumption that it was designed to have a third-order intercept that did not degrade the receiver intercept, and insertion loss that did not degrade the NF (very much).

One couldn't make that assumption on just "any" filter. I've heard from a fairly knowledgeable FT1000 owner, a professional RF engineer, that the input intercept of his receiver was degraded by the narrower Inrad roofing filter. And I think its insertion loss is higher than the stock roofer.

If I HAD to have a narrower roofer, I'd order my own crystals for a simple two or three pole roofer with 4 KHz bandwidth. Feed the mixer into the filter, follow it with a 1.2 dB NF amplifier having 6 dB of gain, then reinjecting the signals into the existing 20 KHz wide roofer would be the way to go.

Bill

670. Re: [Racal6790GM] Schroff Cabinet for sale

Yahoo group: Racal6790GM
Date: 2007-03-21 01:27:26 UTC
From: machine.age@juno.com
Topic: 661 Message: 670
Attachments: 1 described; binary payloads are missing from this source WARC

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671. Re: ROOFER

Yahoo group: Racal6790GM
Date: 2007-03-21 12:16:19 UTC
From: Graham
Topic: 664 Message: 671

.. Yes, the performance of the roofing filter dictares the rx performance. A lot of the new filters arriving at western road, at the start of the 1771/2 production run date 1975 , where not up to spec .. Out of a batch of something like 100 filters, I found 3 or 4 worked ...

It was a long time ago, but from memory, the test used two LC sig gen's (the synth ones where too noisey) and a spectrum analyser.

The two gen' where set 20 / 60 Mhz to give a mixing product in the filter pass band, and set to a high output level and applied via a matching network to the filter input.

The output from the filter, went via a good filter to the analyser input, the second filter gave a 'gain window' to stop oveloading the analyser input, with the two stim signals and adding to the level.

What the spurious product level was, i'm not sure, but is was just over the noise floor of the analyser .. on a good filter .. we sent the whole batch back to as then was . salter crystal filters . these had all pased the production test at salter .. what the outcome was im not sure, but I dont remember any probems after that ..

looks like we might be re-inventing the wheel ! Its a simple test, which could be replicated at home, you could use a rx inplace of the analyser just need a couple of clean signal sources ..

Ok would not give you a actual db value, but it would confirm the filter you where fitting was better or worse than the one you are replacing ?

G ..

672. Re: [Racal6790GM] Re: ROOFER

Yahoo group: Racal6790GM
Date: 2007-03-21 14:04:48 UTC
From: FRANCIS CARCIA
Topic: 664 Message: 672

Graham,
I use a pair of HP8640Bs for generators. Yes the problem becomes the ultimate rejection of the filter not blocking the two oscillators. You gave me an idea though. I can just put the test filter ahead of my first IF with its own internal filter. Maybe a couple pads around the test filter. I just can't seem to find any specs on the 40.455 MHz filters. I have a number of different bandwidths any models from Racal, Harris, WJ and Cubic.
The monitor will be an RMS meter on the audio output. This will help me measure things around the MDS. fc

Graham <g0nbd@...> wrote:
.. Yes, the performance of the roofing filter dictares the rx performance. A lot of the new filters arriving at western road, at the start of the 1771/2 production run date 1975 , where not up to spec .. Out of a batch of something like 100 filters, I found 3 or 4 worked ...

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looks like we might be re-inventing the wheel ! Its a simple test, which could be replicated at home, you could use a rx inplace of the analyser just need a couple of clean signal sources ..

Ok would not give you a actual db value, but it would confirm the filter you where fitting was better or worse than the one you are replacing ?

G ..

673. RE: [Racal6790GM] As New 6790 for sale

Yahoo group: Racal6790GM
Date: 2007-03-05 02:01:11 UTC
From: FRANCIS CARCIA
Topic: 589 Message: 673

I have never had a problem shipping with the USPS. FED EX is also very good.
I would put a high value radio in a double box or wood crate. Sounds like it was damaged before it went into the box to me. Hope he makes good on it.

Hunter Ellington <hunter.ellington@...> wrote:
And now for a tale of woe. I purchased a very nice RA6790GM with six nicely distributed Collins Mechanical filters installed. The vendor sent it by USPS due to some quirk with PayPal. I have a P.O. Box for my home address, and the vendor claimed that he could not ship the radio to my office address, which I usually use for such purposes, because it was not verified. So, being a good citizen, I go to PayPal to verify my address. They, in turn inform me that I have to give them a bank account to be verified. In my usual Celtic reaction to such highway robbery, I told them to pound sand. Alas, the radio was committed to the USPS system and was sent to my local post office. When I went to retrieve the radio from the Federalies, the young lady behind the counter disappeared only to return with the most abused box I have ever seen. Every panel was torn and smashed. Someone in the system had tried to use tape and yellow bands to restore integrity to the destroyed box. I called the vendor and asked him how he wanted to proceed. Should I decline delivery and have the carcass returned in the box, or should I accept and see how the radio did? He said accept, and if the radio survived, no harm, no foul. If the radio was damaged, he would make it good with another unit, and we would file the insurance claim. Well, I got the radio home, stripped the tatters of the box away, and unwrapped the bubble wrap to survey the damage. I cannot describe the damage accurately, and try as I may, I cannot visualize how they managed to do it. The right side of the radio was crushed, with the front and rear panels caved in about three inches. The chassis is bent, and the top and bottom covers crumpled. I opened it up, and amazingly, the circuit boards seem to be intact except for the keypad, and associated board connections. However, the six mechanical filters are unscathed. Such a tragic end to such a fine radio. The vendor does not want the carcass back, and if the Post Office does not take it with them in settling the claim, I may have some backup boards and some nice filters. I would have much preferred the radio in its original condition. Oh well, the vendor is sending me another radio from a lot he purchased, but this time by FedEx second day. We'll see if private enterprise can out do the government monopoly. And to think, these are the people who want to give us universal health coverage, or is it government assisted suicide. 73 all.

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@...
<mailto:hunter.ellington@...>

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Hunter Ellington
Sent: Friday, March 02, 2007 1:04 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] As New 6790 for sale

Actually, I saw a Racal matching speaker unit in a picture on the web. I
just can't find the site again. Thought some of you mavens might have
run accross one as well.

Sent from my BlackBerry Wireless Device

-----Original Message-----
From: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>

To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
Sent: Fri Mar 02 11:51:57 2007
Subject: Re: [Racal6790GM] As New 6790 for sale

Carcia, Francis A HS wrote:

>most guys go to Radio Shack and buy a nice little speaker in a case
>_____
>
>
I did better than that I put a Racal Badge on one of the nice little RS
metal cased speakers. That's going to fool a few folk in the future.
Seriously though, I find my local thrift store a really good source of
small speakers for $5 or less. I have a group of four of them on top
of my Racal receiver rack, two Nakamichi, and two Sony. All sound
really good.

There are Racal speakers, but they are only for the military packsets,
and are small, waterproof, with built in amplifiers, muting on PTT, and
sound really horrible...
73
Dan

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

674. Re: ROOFER

Yahoo group: Racal6790GM
Date: 2007-03-21 18:18:12 UTC
From: Graham
Topic: 664 Message: 674

the rejection of the test signals was not measured, but the 'gain window' provied by the second filter enabled measurements to be taken down at the -100 -120 db level ... at a guess , the spur level was -100 / -110 dbm we did use HP gen's (valve) so the max level would be whatever the gens would produce few volts ? may be + 20 dbm or 25 .. that would of given a sig input to spurious output in the areaq of -100 dbs ...

I think it was a good test, as it simply bashed the filter and measured what came out .. at a guess, the filter had to be better than the dynamic range of the 'new' mixer which was in the region of 120 db's so and was the first to out perform the ra17

It was a long time ago, but sitting in shielded cage for a few days with a wall of new filters in boxes behind you , kind'a sticks in the mind ....

G ..

--- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
> Graham,
> I use a pair of HP8640Bs for generators. Yes the problem becomes the ultimate rejection of the filter not blocking the two oscillators. You gave me an idea though. I can just put the test filter ahead of my first IF with its own internal filter. Maybe a couple pads around the test filter. I just can't seem to find any specs on the 40.455 MHz filters. I have a number of different bandwidths any models from Racal, Harris, WJ and Cubic.
> The monitor will be an RMS meter on the audio output. This will help me measure things around the MDS. fc
>
>

675. Building a ROOFER

Yahoo group: Racal6790GM
Date: 2007-03-21 19:26:15 UTC
From: billw77aaz
Topic: 675 Message: 675

I would like a narrower roofing filter if someone had a cache of them for a reasonable price but that isn't the case. Yes, making a roofing filter is just about as far from trivial as you can get! But I've been making homebrew filters for over fifteen years, I'm well instrumented and I know I can do it. But the motivation is not high enough.

I love my RA6790GM, but like Dan I'm making a pure homebrew transceiver. It's not general coverage, downconversion and just hambands, based upon Peter Rhodes "STAR". That absorbs huge amounts of time for the forseeable future.

Bill

676. RE: [Racal6790GM] Building a ROOFER

Yahoo group: Racal6790GM
Date: 2007-03-21 19:44:43 UTC
From: Carcia, Francis A HS
Topic: 675 Message: 676

I know what you mean. I have a buddy who wants me to design an exciter for the RA6830 and he will do the board artwork. I have HPSDR boards coming.
I'm also working on a wide band RA6830 Hot Rod. Wider filters in the first IF need better dynamic range everything past the first mixer.
I was thinking of taking a bunch of filters apart and building a homebrew one myself but like you say life is short. fc

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of billw77aaz
Sent: Wednesday, March 21, 2007 3:26 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Building a ROOFER

I would like a narrower roofing filter if someone had a cache of them for a reasonable price but that isn't the case. Yes, making a roofing filter is just about as far from trivial as you can get! But I've been making homebrew filters for over fifteen years, I'm well instrumented and I know I can do it. But the motivation is not high enough.

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Bill

677. Re: [Racal6790GM] Re: ROOFER

Yahoo group: Racal6790GM
Date: 2007-03-21 20:50:02 UTC
From: FRANCIS CARCIA
Topic: 664 Message: 677

Graham,
The new mixer, was that the quad FET mixer? frank

Graham <g0nbd@...> wrote:
the rejection of the test signals was not measured, but the 'gain window' provied by the second filter enabled measurements to be taken down at the -100 -120 db level ... at a guess , the spur level was -100 / -110 dbm we did use HP gen's (valve) so the max level would be whatever the gens would produce few volts ? may be + 20 dbm or 25 .. that would of given a sig input to spurious output in the areaq of -100 dbs ...

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It was a long time ago, but sitting in shielded cage for a few days with a wall of new filters in boxes behind you , kind'a sticks in the mind ....

G ..

--- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
> Graham,
> I use a pair of HP8640Bs for generators. Yes the problem becomes the ultimate rejection of the filter not blocking the two oscillators. You gave me an idea though. I can just put the test filter ahead of my first IF with its own internal filter. Maybe a couple pads around the test filter. I just can't seem to find any specs on the 40.455 MHz filters. I have a number of different bandwidths any models from Racal, Harris, WJ and Cubic.
> The monitor will be an RMS meter on the audio output. This will help me measure things around the MDS. fc
>
>

678. Re: ROOFER

Yahoo group: Racal6790GM
Date: 2007-03-22 18:40:25 UTC
From: Graham
Topic: 664 Message: 678

Frank, Yes it was a new mixer then .four fet's in a bridge with a high level 5 to 7 watts drive .

It was 'invented' over dinner in the canteen , sketched out on a napkin and rushed up to the drawing office .. even the final ppl filter, little group of components in the varactor line to the hf loop , was arrived at by guess work .. good guess eh :-)

ok so the line is shorted by the fast lock cct when you tune, but you'd never notice as it re-locks in 2.5 mS thats why the out of lock lamp flashes all the time ..

G ..

--- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
> Graham,
> The new mixer, was that the quad FET mixer? frank
>
> Graham <g0nbd@...> wrote:
> the rejection of the test signals was not measured, but
the 'gain
> window' provied by the second filter enabled measurements to be
taken
> down at the -100 -120 db level ... at a guess , the spur level was -
> 100 / -110 dbm we did use HP gen's (valve) so the max level would
be
> whatever the gens would produce few volts ? may be + 20 dbm or
25 ..
> that would of given a sig input to spurious output in the areaq of -
100
> dbs ...
>
> I think it was a good test, as it simply bashed the filter and
measured
> what came out .. at a guess, the filter had to be better than the
> dynamic range of the 'new' mixer which was in the region of 120
db's so
> and was the first to out perform the ra17
>
> It was a long time ago, but sitting in shielded cage for a few days
> with a wall of new filters in boxes behind you , kind'a sticks in
the
> mind ....
>
> G ..

>
> --- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@> wrote:
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> test filter. I just can't seem to find any specs on the 40.455 MHz
> filters. I have a number of different bandwidths any models from
Racal,
> Harris, WJ and Cubic.
> > The monitor will be an RMS meter on the audio output. This will
> help me measure things around the MDS. fc
> >
> >
>

679. Re: [Racal6790GM] Re: ROOFER

Yahoo group: Racal6790GM
Date: 2007-03-23 01:11:27 UTC
From: FRANCIS CARCIA
Topic: 664 Message: 679

Hi Graham,
Well 5 to 7 watts is some serious gate voltage. I suppose in the long run this voltage was dropped because the roofing filter wasn't up to the task. The 6830 has a similar totem pole amplifier to the 6790. I suppose it will do 10 or 12 volts peak to peak. I remember the SI 8901 ran some high gate voltage to get the third order intercept close to 40 dBM. I seem to remember the voltage up around the same level you are talking about here. I built a diode mixer with 16 1N5711s that had a 1/2 watt LO. They ran a bit warm in a type 3a mixer. once I hit it too hard and blew 1/2 the diodes. The Idea of using FETs reduces the power so it would be easier to get voltage for the gates. I think the 6830 has a pair of 150 ohm resistors across the LO transformer secondary. I bet that gives the driver a resistive load and helps balance.
I would be interested in seeing some of those old schematics.
My homebrew I used a 41 MHz KVG filter 7 KHz. wide but I put a LC filter ahead of it to strip off the wide crud. I got that up to 96 dB of dynamic range again limited by the second mixer. I did have about 3 or 4 dB. extra gain ahead of the second mixer so it could have been a bit better.
Racal seemed to lose interest in close in dynamic range using a MC1496 second mixer in many models. The 6830 DF receivers were a bit stronger with a RAY6 but the best I have found to date is the RA6840 second mixer with 23 dBM of LO. I have one that I tuned up to the 40.455 MHz IF with the right filter.
It is interesting to run into someone who worked with all this stuff. I plan to take a different approach by starting at the second IF and working my way out. The second IF MDS isn't all that great and the loss throughthe filter module is pretty high. Too bad Racal decided to drive all the filters at once and only switch the outputs. This hurt the performance a lot to save a few bucks in parts. the older units did a better job I think. again the DF receivers worded well but in the case of the 6830 DF you could only fit 3 filters with the better switching configuration. There just wasn't enough room. Surface mount parts on the back of the board would get that function back. I'm thinking of a homebrew filter module for starters.
I also built an I/Q demodulator for a 6830 so I could do SDR demodulation with the radio and have a nice spectrum display. I sold a friend a 6830 and he did the artwork after I did the design. It worked out quite well.
Anyway you guys did a great job. Frank
Graham <g0nbd@...> wrote:
Frank, Yes it was a new mixer then .four fet's in a bridge with a
high level 5 to 7 watts drive .

It was 'invented' over dinner in the canteen , sketched out on a
napkin and rushed up to the drawing office .. even the final ppl
filter, little group of components in the varactor line to the hf
loop , was arrived at by guess work .. good guess eh :-)

ok so the line is shorted by the fast lock cct when you tune, but
you'd never notice as it re-locks in 2.5 mS thats why the out of lock
lamp flashes all the time ..

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> whatever the gens would produce few volts ? may be + 20 dbm or
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> that would of given a sig input to spurious output in the areaq of -
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> dbs ...
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> dynamic range of the 'new' mixer which was in the region of 120
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> filters. I have a number of different bandwidths any models from
Racal,
> Harris, WJ and Cubic.
> > The monitor will be an RMS meter on the audio output. This will
> help me measure things around the MDS. fc

> >
> >
>

680. Re: [Racal6790GM] Re: ROOFER

Yahoo group: Racal6790GM
Date: 2007-04-01 22:04:59 UTC
From: FRANCIS CARCIA
Topic: 664 Message: 680

Graham,
Didd you send me an email with a mixer in it on 4-1? It came through in my junk mail folder and I spotted it just as I hit the delete all button. Please send it again. frank

Graham <g0nbd@...> wrote:
Frank, Yes it was a new mixer then .four fet's in a bridge with a high level 5 to 7 watts drive .

It was 'invented' over dinner in the canteen , sketched out on a napkin and rushed up to the drawing office .. even the final ppl filter, little group of components in the varactor line to the hf loop , was arrived at by guess work .. good guess eh :-)

ok so the line is shorted by the fast lock cct when you tune, but you'd never notice as it re-locks in 2.5 mS thats why the out of lock lamp flashes all the time ..

G ..

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> Graham <g0nbd@...> wrote:
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> 100 / -110 dbm we did use HP gen's (valve) so the max level would be
> whatever the gens would produce few volts ? may be + 20 dbm or 25 ..
> that would of given a sig input to spurious output in the areaq of -100
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> I think it was a good test, as it simply bashed the filter and measured
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> dynamic range of the 'new' mixer which was in the region of 120 db's so
> and was the first to out perform the ra17
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> It was a long time ago, but sitting in shielded cage for a few days

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Racal,
> Harris, WJ and Cubic.
> > The monitor will be an RMS meter on the audio output. This will
> help me measure things around the MDS. fc
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681. Using the RA-6790/GM with a Transmitter.

Yahoo group: Racal6790GM
Date: 2007-04-02 13:08:53 UTC
From: C Riccardo E Strachan
Topic: 681 Message: 681

Most interested in communicating with anyone using a RA-6790/GM with a transmitter in an amateur station.

Interested in proper muting on transmit as well as filtering requirements for SSB and CW modes. Interest for FM and AM modes exist but, the need is more crucial with regards to crowed situations on the CW and SSB modes.

My thanks.

Vy 73,

C6ANI Ric.

Cold Old Stone Crab

TV dinner still cooling?
Check out "Tonight's Picks" on Yahoo! TV.

682. Racal 6778C AM problem

Yahoo group: Racal6790GM
Date: 2007-04-02 15:16:24 UTC
From: ve1ii
Topic: 682 Message: 682

I am trying to figure out what is wrong in my 6778C.
Everything appears to be working as normal except it appears dead when in the AM mode. USB, USB and CW modes seem to be fine.
In looking at the files in the file section it seems that there might be very similar modules in the 6790 receiver.
I have no schematics of the 6778C so if anyone has a schematic file of the sections that may be involved in my problem I would appreciate hearing from you.

Any observations would be appreciated.

73,
Bruce

683. Re: [Racal6790GM] Racal 6778C AM problem

Yahoo group: Racal6790GM
Date: 2007-04-02 15:27:19 UTC
From: Dan Rae
Topic: 682 Message: 683

ve1ii wrote:

>I am trying to figure out what is wrong in my 6778C.
>Everything appears to be working as normal except it appears dead when
>in the AM mode. USB, USB and CW modes seem to be fine.
>In looking at the files in the file section it seems that there might
>be very similar modules in the 6790 receiver.
>I have no schematics of the 6778C so if anyone has a schematic file of
>the sections that may be involved in my problem I would appreciate
>hearing from you.
>
>
Gary Wingerd, who usually lurks here, should be able to sell you a
manual, if he can lay his hands on it among his thousands of books.

gewingerd@...

73
Dan
ac6ao

684. Re: [Racal6790GM] Racal 6778C AM problem

Yahoo group: Racal6790GM
Date: 2007-04-02 17:01:53 UTC
From: gewingerd@netzero.com
Topic: 682 Message: 684

Try Mike at http://www.torontosurplus.com/
Toronto Surplus & Scientific Inc.
For a quicker and more personal response, just give us a call and ask
for
Mike or Wendy.

Local: 905.887.0007 Toll Free: 877.974.0007 Fax: 905.887.0006

Hours of Operation: Monday to Friday, 9:00am - 5:30pm Eastern Time.

They sell the RA6778C radios they should have the manual, if not I
have a manual I can get copied for you, it will take a couple of
days. The radio is nothing like the RA6790/GM receiver, I built the
last of the RA6778C radios to go to Canada and I can tell you they
are real Bitxx to figure out, allot of transistor logic.

Good luck,
Gary

685. Re: Using the RA-6790/GM with a Transmitter.

Yahoo group: Racal6790GM
Date: 2007-04-03 18:11:32 UTC
From: Graham
Topic: 681 Message: 685

I dont think there is a mute facility, the rf pre-amp has some form of mute, but not the main rx ...

G ..

--- In Racal6790GM@yahoogroups.com, C Riccardo E Strachan <c6ani@...> wrote:
>
> Most interested in communicating with anyone using a RA-6790/GM with a transmitter in an amateur station.
>
> Interested in proper muting on transmit as well as filtering requirements for SSB and CW modes. Interest for FM and AM modes exist but, the need is more crucial with regards to crowed situations on the CW and SSB modes.
>
> My thanks.
>
> Vy 73,
>
> C6ANI Ric.
>
>
> Cold Old Stone Crab
>
> ---------------------------------
> TV dinner still cooling?
> Check out "Tonight's Picks" on Yahoo! TV.
>

686. Call for help Morrow 9052 Pc based Spectrum analyser - software- book- ?

Yahoo group: Racal6790GM
Date: 2007-04-04 13:04:10 UTC
From: Graham
Topic: 686 Message: 686

Call for help !

Ive become the proud owner of a `Morrow 9052' pc based Spectrum analyser 100 khz > 1.6 ghz , just as Morrow have been taken over and there web site had closed .from what I can tell its working and looks to be a use full bit of kit ☐ after building a pc with a isa mother board to fit it in ..

Has anyone a copy of or know anyone with the user guide ? , the analyser has 7 sma ports, one of which is the input , but what are the other's ?

Secondly , I have what appears to be `version 1' of the windows based control `graphic interface' which fits on one floppy disc . Apparently you could download the support software .. has anyone a copy of a more up to date version of the software .. mine is marked `demonstration' and not all the butons work ..

Tnx

Graham .

687. Re: Racal 6778C AM problem

Yahoo group: Racal6790GM
Date: 2007-04-04 15:14:27 UTC
From: ve1ii
Topic: 682 Message: 687

Thanks for the suggestions.

I managed to find the problem. In the A5 module, a 6.8 uF capacitor had shorted and a 10 ohm resistor failed as a result. The resistor was in the 20 volt line to the two transistors in the AM section of the receiver (Q11 and Q12).. Everything works great again!

Now I must see what I can find on interfacing the receiver to a PC for control. Comments appreciated.

Again, thanks.

Bruce

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Try Mike at http://www.torontosurplus.com/
> Toronto Surplus & Scientific Inc.
> For a quicker and more personal response, just give us a call and ask
> for
> Mike or Wendy.
>
> Local: 905.887.0007 Toll Free: 877.974.0007 Fax: 905.887.0006
>
> Hours of Operation: Monday to Friday, 9:00am - 5:30pm Eastern Time.
>
> They sell the RA6778C radios they should have the manual, if not I
> have a manual I can get copied for you, it will take a couple of
> days. The radio is nothing like the RA6790/GM receiver, I built the
> last of the RA6778C radios to go to Canada and I can tell you they
> are real Bitxx to figure out, allot of transistor logic.
>
> Good luck,
> Gary
>

688. RE: [Racal6790GM] Re: Racal 6778C AM problem

Yahoo group: Racal6790GM
Date: 2007-04-04 16:06:55 UTC
From: Carcia, Francis A HS
Topic: 682 Message: 688

A common problem in a Racal or Cubic using those molded caps. Start collecting spares for the future. I try to use higher voltage replacement parts. fc

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of ve1ii
Sent: Wednesday, April 04, 2007 11:14 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Racal 6778C AM problem

Thanks for the suggestions.

I managed to find the problem. In the A5 module, a 6.8 uF capacitor had shorted and a 10 ohm resistor failed as a result. The resistor was in the 20 volt line to the two transistors in the AM section of the receiver (Q11 and Q12).. Everything works great again!

Now I must see what I can find on interfacing the receiver to a PC for control. Comments appreciated.

Again, thanks.

Bruce

--- In Racal6790GM@yahoogroups.com
<mailto:Racal6790GM%40yahoogroups.com> , "gewingerd@..." <gewingerd@...>
wrote:
>
> Try Mike at http://www.torontosurplus.com/
<http://www.torontosurplus.com/>
> Toronto Surplus & Scientific Inc.
> For a quicker and more personal response, just give us a call and ask
> for
> Mike or Wendy.
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> Local: 905.887.0007 Toll Free: 877.974.0007 Fax: 905.887.0006
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> They sell the RA6778C radios they should have the manual, if not I
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> days. The radio is nothing like the RA6790/GM receiver, I built the
> last of the RA6778C radios to go to Canada and I can tell you they
> are real Bitxx to figure out, allot of transistor logic.
>

> Good luck,
> Gary
>

689. sensitivity quick test

Yahoo group: Racal6790GM
Date: 2007-04-04 16:21:36 UTC
From: F5QE@AOL.COM
Topic: 689 Message: 689

hi, I thinking a problem in the A2 FIRST MIXER

But I dont have HF generator my question : any compare 2rigs

on the air my FT1000MP on 7mhz LSB qso indicate S9 s meter

same time my 6790 indicate " 6 " at the RF LCD no other "fault bite test !

and many white noisy after the AGC delay !

All is right or real trouble ??

merci 73 Paul F5QE </HTML>

690. Re: [Racal6790GM] sensitivity quick test

Yahoo group: Racal6790GM
Date: 2007-04-04 17:41:35 UTC
From: Dan Rae
Topic: 689 Message: 690

F5QE@... wrote:

> hi, I thinking a problem in the A2 FIRST MIXER
>
> But I dont have HF generator my question : any compare 2rigs
>
> on the air my FT1000MP on 7mhz LSB qso indicate S9 s meter
>
> same time my 6790 indicate " 6 " at the RF LCD no other "fault
> bite test !
>

Paul, with a correctly aligned RA6790/GM, the RF meter indicates, with pretty good accuracy, 10 dB over 1 microvolt for each blob. So you have, in principle, 60 dB over 1 ?V, whatever that is in "S" units...

73

Dan

ac6ao / g3ncr

691. Re: [Racal6790GM] sensitivity quick test

Yahoo group: Racal6790GM
Date: 2007-04-04 18:44:44 UTC
From: Peter Nolte
Topic: 689 Message: 691

Dan and Paul,
just consulted my conversion list:

60 dBµV = S 9 + 25 dB (on HF!)

S 9 (on HF!) = 35 dBµV

Rgds.,
Peter, DC6BN+

692. RE : [Racal6790GM] sensitivity quick test

Yahoo group: Racal6790GM
Date: 2007-04-11 19:10:42 UTC
From: philippe gombert
Topic: 689 Message: 692

Hello

Ihave somme racal receiver, i know this equipment.

I you need some informations (manual or software...

Best regards

Phiippe F1ETA

F5QE@... a ?crit :
hi, I thinking a problem in the A2 FIRST MIXER

But I dont have HF generator my question : any compare 2rigs

on the air my FT1000MP on 7mhz LSB qso indicate S9 s meter

same time my 6790 indicate " 6 " at the RF LCD no other "fault bite test !

and many white noisy after the AGC delay !

All is right or real trouble ??

merci 73 Paul F5QE

D?couvrez une nouvelle fa?on d'obtenir des r?ponses ? toutes vos questions ! Profitez des connaissances, des opinions et des exp?riences des internautes sur Yahoo! Questions/R?ponses.

693. RA6790GM data link connector - EBAY - Item number: 160107683529

Yahoo group: Racal6790GM
Date: 2007-04-17 16:15:13 UTC
From: Graham
Topic: 693 Message: 693

RACAL RA6790GM DATA LINK CONNECTOR

EBAY Item number: 160107683529

697. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-14 15:46:37 UTC
From: James Colbert
Topic: 697 Message: 697

Fernando contact me at roxnit2@...

-----Original Message-----
>From: Fernando <fenu@...>
>Sent: May 14, 2007 1:41 AM
>To: Racal6790GM@yahoogroups.com
>Subject: [Racal6790GM] Searching one Racal RA6790/GM
>
>Hi there, I seach an Racal RA6790/GM in perfect working and cosmetic
>condition. Offers please with good pictures from the RX and price idea.
>Thank you
>Fenu
>http://www.fenu-radio.ch
>

698. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-14 13:58:17 UTC
From: Hunter Ellington
Topic: 697 Message: 698

Theh is one on ebay right now.

Sent from my BlackBerry Wireless Device

-----Original Message-----
From: Racal6790GM@yahoogroups.com
To: Racal6790GM@yahoogroups.com
Sent: Mon May 14 00:45:50 2007
Subject: [Racal6790GM] Searching one Racal RA6790/GM

Hi there, I search an Racal RA6790/GM in perfect working and cosmetic condition. Offers please with good pictures from the RX and price idea.
Thank you
Fenu
http://www.fenu-radio.ch <http://www.fenu-radio.ch>

699. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-15 14:24:02 UTC
From: oscar873@aol.com
Topic: 697 Message: 699

Is your web page in English?
Al

-----Original Message-----
From: fenu@...
To: Racal6790GM@yahoogroups.com
Sent: Sun, 13 May 2007 11:41 PM
Subject: [Racal6790GM] Searching one Racal RA6790/GM

Hi there, I seach an Racal RA6790/GM in perfect working and cosmetic
condition. Offers please with good pictures from the RX and price idea.
Thank you
Fenu
http://www.fenu-radio.ch

_____
AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com.

700. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-15 15:49:10 UTC
From: Fernando Duarte
Topic: 697 Message: 700

Hi Al,

Yes, I have a Hagenuk RX 1001 M working.
A superb receiver.

My page you can translate my page with this link.

http://translate.google.com/translate?u=http%3A%2F%2Fwww.fenu-radio.ch&langpair=de%7Cen&hl=de&ie=UTF-8&oe=UTF-8&prev=%2Flanguage_tools

best regards
Fenu

oscar873@... schrieb:

Is your web page in English?

Al

-----Original Message-----
From: fenu@swissonline.ch
To: Racal6790GM@yahoogroups.com
Sent: Sun, 13 May 2007 11:41 PM
Subject: [Racal6790GM] Searching one Racal RA6790/GM

Hi there, I seach an Racal RA6790/GM in perfect working and cosmetic
condition. Offers please with good pictures from the RX and price idea.
Thank you
Fenu
http://www.fenu-radio.ch (http://www.fenu-radio.ch/)

AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com (http://www.aol.com?ncid=AOLAOF00020000000437).

701. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-15 19:07:17 UTC
From: oscar873@aol.com
Topic: 697 Message: 701

Fenu,
I need a working power supply for a Hagenuk.
Do u Have one extra?
Al

-----Original Message-----
From: fenu@...
To: Racal6790GM@yahoogroups.com
Sent: Tue, 15 May 2007 8:49 AM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Hi Al,

Yes, I have a Hagenuk RX 1001 M working.
A superb receiver.

My page you can translate my page with this link.

http://translate.google.com/translate?u=http%3A%2F%2Fwww.fenu-radio.ch&langpair=de%7Cen&hl=de&ie=UTF-8&oe=UTF-8&prev=%2Flanguage_tools

best regards
Fenu

oscar873@... schrieb:
Is your web page in English?
Al

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From: fenu@...
To: Racal6790GM@yahoogroups.com
Sent: Sun, 13 May 2007 11:41 PM
Subject: [Racal6790GM] Searching one Racal RA6790/GM

Hi there, I seach an Racal RA6790/GM in perfect working and cosmetic
condition. Offers please with good pictures from the RX and price idea.
Thank you
Fenu
http://www.fenu-radio.ch

AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com.

AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com.

702. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-15 21:27:36 UTC
From: Fernando Duarte
Topic: 697 Message: 702

Hi Al,
No, I'm sorry.
I dont have one extra power supply.

Have you the RX 1001 ?
Fenu

oscar873@... schrieb:

Fenu,

I need a working power supply for a Hagenuk.

Do u Have one extra?

Al

-----Original Message-----
From: fenu@swissonline.ch
To: Racal6790GM@yahoogroups.com
Sent: Tue, 15 May 2007 8:49 AM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Hi Al,

Yes, I have a Hagenuk RX 1001 M working.
A superb receiver.

My page you can translate my page with this link.

http://translate.google.com/translate?u=http%3A%2F%2Fwww.fenu-radio.ch&langpair=de%7Cen&hl=de&ie=UTF-8&oe=UTF-8&prev=%2Flanguage_tools

best regards
Fenu

oscar873@aol.com schrieb:

Is your web page in English?

Al

-----Original Message-----
From: fenu@swissonline.ch
To: Racal6790GM@yahoogroups.com
Sent: Sun, 13 May 2007 11:41 PM
Subject: [Racal6790GM] Searching one Racal RA6790/GM

Hi there, I seach an Racal RA6790/GM in perfect working and cosmetic condition. Offers please with good pictures from the RX and price idea.
Thank you
Fenu
http://www.fenu-radio.ch (http://www.fenu-radio.ch/)

AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com (http://www.aol.com/?ncid=AOLAOF00020000000437).

703. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-16 00:46:37 UTC
From: toddroberts2001@aol.com
Topic: 697 Message: 703

In a message dated 5/15/2007 11:54:20 AM Eastern Standard Time,
fenu@... writes:
Yes, I have a Hagenuk RX 1001 M working.
A superb receiver.

My page you can translate my page with this link.

_http://translate.google.com/translate?u=http%3A%2F%2Fwww.fenu-radio.ch&langpa
ir=de%7Cen&hl=de&ie=UTF-8&oe=UTF-8&prev=%2Flanguage_tools_
(http://translate.google.com/translate?u=http://www.fenu-radio.ch&langpair=de|en&hl=de&ie=
UTF-8&o
e=UTF-8&prev=/language_tools)

best regards
Fenu

Hi Fenu,
Thanks for giving us the link to your translated page. Fenu has a
wonderful webpage with lots of contemporary receivers covered with interesting
comments on each one. Many nice close-up pictures also. Fenu I also have a
Hagenuk RX 1001 M from the German Navy yard in like new condition. A wonderful
receiver with one of the nicest selections of filters I have seen in any radio.
Hope you will find a nice RA6790/GM to add to your collection. I think
you will find it will be near the top of your list.

73 Todd WD4NGG

********** See what's free at http://www.aol.com.

704. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-16 13:53:08 UTC
From: oscar873@aol.com
Topic: 697 Message: 704

Yes, Do u have a manual that could be copied?
Al

-----Original Message-----
From: fenu@...
To: Racal6790GM@yahoogroups.com
Sent: Tue, 15 May 2007 2:27 PM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Hi Al,
No, I'm sorry.
I dont have one extra power supply.

Have you the RX 1001 ?
Fenu

oscar873@... schrieb:
Fenu,
I need a working power supply for a Hagenuk.
Do u Have one extra?
Al

-----Original Message-----
From: fenu@...
To: Racal6790GM@yahoogroups.com
Sent: Tue, 15 May 2007 8:49 AM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Hi Al,

Yes, I have a Hagenuk RX 1001 M working.
A superb receiver.

My page you can translate my page with this link.

http://translate.google.com/translate?u=http%3A%2F%2Fwww.fenu-radio.ch&langpair=de%7Cen&hl=de&ie=UTF-8&oe=UTF-8&prev=%2Flanguage_tools

best regards
Fenu

oscar873@... schrieb:
Is your web page in English?
Al

-----Original Message-----
From: fenu@...
To: Racal6790GM@yahoogroups.com

Sent: Sun, 13 May 2007 11:41 PM
Subject: [Racal6790GM] Searching one Racal RA6790/GM

Hi there, I seach an Racal RA6790/GM in perfect working and cosmetic
condition. Offers please with good pictures from the RX and price idea.
Thank you
Fenu
http://www.fenu-radio.ch

AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com.

_____
AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com.

705. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-16 14:31:03 UTC
From: Fernando Duarte
Topic: 697 Message: 705

Yes, I have the complete manual.
You like a pdf copie?

oscar873@... schrieb:

Yes, Do u have a manual that could be copied?

Al

-----Original Message-----
From: fenu@swissonline.ch
To: Racal6790GM@yahoogroups.com
Sent: Tue, 15 May 2007 2:27 PM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Hi Al,
No, I'm sorry.
I dont have one extra power supply.

Have you the RX 1001 ?
Fenu

oscar873@aol.com schrieb:

Fenu,

I need a working power supply for a Hagenuk.

Do u Have one extra?

Al

-----Original Message-----
From: fenu@swissonline.ch
To: Racal6790GM@yahoogroups.com
Sent: Tue, 15 May 2007 8:49 AM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Hi Al,

Yes, I have a Hagenuk RX 1001 M working.
A superb receiver.

My page you can translate my page with this link.

http://translate.google.com/translate?u=http%3A%2F%2Fwww.fenu-radio.ch&langpair=de%7Cen&hl=de&ie=UTF-8&oe=UTF-8&prev=%2Flanguage_tools

best regards
Fenu

oscar873@aol.com schrieb:

Is your web page in English?

Al

-----Original Message-----
From: fenu@swissonline.ch
To: Racal6790GM@yahoogroups.com
Sent: Sun, 13 May 2007 11:41 PM
Subject: [Racal6790GM] Searching one Racal RA6790/GM

Hi there, I seach an Racal RA6790/GM in perfect working and cosmetic
condition. Offers please with good pictures from the RX and price idea.
Thank you
Fenu
http://www.fenu-radio.ch (http://www.fenu-radio.ch/)

AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com
(http://www.aol.com/?ncid=AOLAOF00020000000437).

706. Manual Racal 6793

Yahoo group: Racal6790GM
Date: 2007-05-16 14:33:11 UTC
From: Fernando Duarte
Topic: 697 Message: 706

Have any one a pdf Manual from the Racal RA-6793?

regards
Fenu

707. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-16 14:32:46 UTC
From: Fernando Duarte
Topic: 697 Message: 707

Have any one a pdf Manual from the Racal RA-6793?

regards
Fenu

708. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-16 18:11:38 UTC
From: James Colbert
Topic: 697 Message: 708

I'm not sure I have the .pdf manual with me, Fernando, but I do have a copy in .pdf and hard copy at home. I'll keep your email and get a copy off to you when I get there, hopefully within the next few days.

Jim

-----Original Message-----
>From: Fernando Duarte <fenu@...>
>Sent: May 16, 2007 10:32 AM
>To: Racal6790GM@yahoogroups.com
>Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM
>
>
>
>Have any one a pdf Manual from the Racal RA-6793?
>
>regards
>Fenu
>
>
>

709. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-16 18:16:51 UTC
From: James Colbert
Topic: 697 Message: 709
Attachments: 1 described; binary payloads are missing from this source WARC

Found it! I'll try to send it along as an attachment. It is, however, several hundred pages long. If it doesn't make it I can burn it onto a CD and send it to you. Let's see what happens . . .

Jim

-----Original Message-----
>From: Fernando Duarte <fenu@...>
>Sent: May 16, 2007 10:32 AM
>To: Racal6790GM@yahoogroups.com
>Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM
>
>
>
>Have any one a pdf Manual from the Racal RA-6793?
>
>regards
>Fenu
>
>
>

710. RE: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-16 18:20:49 UTC
From: Carcia, Francis A HS
Topic: 697 Message: 710

you can down load this manual from premium rx

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of James Colbert
Sent: Wednesday, May 16, 2007 2:17 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Found it! I'll try to send it along as an attachment. It is, however,
several hundred pages long. If it doesn't make it I can burn it onto a
CD and send it to you. Let's see what happens . . .

Jim

-----Original Message-----
>From: Fernando Duarte <fenu@...
<mailto:fenu%40swissonline.ch> >
>Sent: May 16, 2007 10:32 AM
>To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
>Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM
>
>
>
>Have any one a pdf Manual from the Racal RA-6793?
>
>regards
>Fenu
>
>
>

711. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-16 18:56:22 UTC
From: oscar873@aol.com
Topic: 697 Message: 711

CAN U SEND IT TO ME?
Thanks
Al

-----Original Message-----
From: fenu@...
To: Racal6790GM@yahoogroups.com
Sent: Wed, 16 May 2007 7:31 AM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Yes, I have the complete manual.
You like a pdf copie?

oscar873@... schrieb:
Yes, Do u have a manual that could be copied?
Al

-----Original Message-----
From: fenu@...
To: Racal6790GM@yahoogroups.com
Sent: Tue, 15 May 2007 2:27 PM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Hi Al,
No, I'm sorry.
I dont have one extra power supply.

Have you the RX 1001 ?
Fenu

oscar873@... schrieb:
Fenu,
I need a working power supply for a Hagenuk.
Do u Have one extra?
Al

-----Original Message-----
From: fenu@...
To: Racal6790GM@yahoogroups.com
Sent: Tue, 15 May 2007 8:49 AM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Hi Al,

Yes, I have a Hagenuk RX 1001 M working.
A superb receiver.

My page you can translate my page with this link.

http://translate.google.com/translate?u=http%3A%2F%2Fwww.fenu-radio.ch&langpair=de%7Cen&hl=de&ie=UTF-8&oe=UTF-8&prev=%2Flanguage_tools

best regards
Fenu

oscar873@... schrieb:
Is your web page in English?
Al

-----Original Message-----
From: fenu@...
To: Racal6790GM@yahoogroups.com
Sent: Sun, 13 May 2007 11:41 PM
Subject: [Racal6790GM] Searching one Racal RA6790/GM

Hi there, I seach an Racal RA6790/GM in perfect working and cosmetic
condition. Offers please with good pictures from the RX and price idea.
Thank you
Fenu
http://www.fenu-radio.ch

AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com.

_____
AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com.

712. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-16 19:10:31 UTC
From: Fernando Duarte
Topic: 697 Message: 712

In a halve hour, I give you one link to download the Manual for the Hagenuk RX 1001 M from my website
Fenu

oscar873@... schrieb:

CAN U SEND IT TO ME?

Thanks

Al

-----Original Message-----
From: fenu@swissonline.ch
To: Racal6790GM@yahoogroups.com
Sent: Wed, 16 May 2007 7:31 AM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Yes, I have the complete manual.
You like a pdf copie?

oscar873@aol.com schrieb:

Yes, Do u have a manual that could be copied?

Al

-----Original Message-----
From: fenu@swissonline.ch
To: Racal6790GM@yahoogroups.com
Sent: Tue, 15 May 2007 2:27 PM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Hi Al,
No, I'm sorry.
I dont have one extra power supply.

Have you the RX 1001 ?
Fenu

oscar873@aol.com schrieb:

Fenu,

I need a working power supply for a Hagenuk.

Do u Have one extra?

Al

-----Original Message-----
From: fenu@swissonline.ch
To: Racal6790GM@yahoogroups.com
Sent: Tue, 15 May 2007 8:49 AM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Hi Al,

Yes, I have a Hagenuk RX 1001 M working.
A superb receiver.

My page you can translate my page with this link.

http://translate.google.com/translate?u=http%3A%2F%2Fwww.fenu-radio.ch&langpair=de%7Cen&hl=de&ie=UTF-8&oe=UTF-8&prev=%2Flanguage_tools

best regards
Fenu

oscar873@aol.com schrieb:

Is your web page in English?

Al

-----Original Message-----
From: fenu@swissonline.ch
To: Racal6790GM@yahoogroups.com
Sent: Sun, 13 May 2007 11:41 PM
Subject: [Racal6790GM] Searching one Racal RA6790/GM

Hi there, I seach an Racal RA6790/GM in perfect working and cosmetic
condition. Offers please with good pictures from the RX and price idea.
Thank you
Fenu
http://www.fenu-radio.ch (http://www.fenu-radio.ch/)

AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com (http://www.aol.com/?ncid=AOLAOF00020000000437).

715. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-16 18:19:46 UTC
From: Fernando Duarte
Topic: 697 Message: 715

Hi Jim,

thanks for your assistance.

Very nicely from you.

best regards
Fernando

James Colbert schrieb:

I'm not sure I have the .pdf manual with me, Fernando, but I do have a copy in .pdf and hard copy at home. I'll keep your email and get a copy off to you when I get there, hopefully within the next few days.

Jim

-----Original Message-----
>From: Fernando Duarte <fenu@swissonline.ch>
>Sent: May 16, 2007 10:32 AM
>To: Racal6790GM@yahoogroups.com
>Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM
>
>
>
>Have any one a pdf Manual from the Racal RA-6793?
>
>regards
>Fenu
>
>
>

716. RE: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-16 20:03:28 UTC
From: Carcia, Francis A HS
Topic: 697 Message: 716

can't find it on your site???? looks like a nice radio fc

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Fernando Duarte
Sent: Wednesday, May 16, 2007 3:11 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

In a halve hour, I give you one link to download the Manual for the
Hagenuk RX 1001 M from my website
Fenu

oscar873@... <mailto:oscar873@...> schrieb:

CAN U SEND IT TO ME?
Thanks
Al

-----Original Message-----
From: fenu@...
To: Racal6790GM@yahoogroups.com
Sent: Wed, 16 May 2007 7:31 AM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Yes, I have the complete manual.
You like a pdf copie?

oscar873@... <mailto:oscar873@...> schrieb:

Yes, Do u have a manual that could be copied?
Al

-----Original Message-----
From: fenu@...
To: Racal6790GM@yahoogroups.com
Sent: Tue, 15 May 2007 2:27 PM
Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM

Hi Al,
No, I'm sorry.
I dont have one extra power supply.

Have you the RX 1001 ?
Fenu

oscar873@... <mailto:oscar873@...> schrieb:

Fenu,
I need a working power supply for a Hagenuk.
Do u Have one extra?
Al

-----Original Message-----
From: fenu@...
To: Racal6790GM@yahoogroups.com
Sent: Tue, 15 May 2007 8:49 AM
Subject: Re: [Racal6790GM] Searching one Racal
RA6790/GM

Hi Al,

Yes, I have a Hagenuk RX 1001 M working.
A superb receiver.

My page you can translate my page with this
link.

http://translate.google.com/translate?u=http%3A%2F%2Fwww.fenu-radio.ch&l
angpair=de%7Cen&hl=de&ie=UTF-8&oe=UTF-8&prev=%2Flanguage_tools
<http://translate.google.com/translate?u=http%3A%2F%2Fwww.fenu-radio.ch&
langpair=de%7Cen&hl=de&ie=UTF-8&oe=UTF-8&prev=%2Flanguage_tools>

best regards
Fenu

oscar873@... <mailto:oscar873@...>
schrieb:

Is your web page in English?
Al

-----Original Message-----
From: fenu@...
To: Racal6790GM@yahoogroups.com
Sent: Sun, 13 May 2007 11:41 PM
Subject: [Racal6790GM] Searching one
Racal RA6790/GM

Hi there, I seach an Racal RA6790/GM in
perfect working and cosmetic
condition. Offers please with good
pictures from the RX and price idea.
Thank you
Fenu
http://www.fenu-radio.ch
<http://www.fenu-radio.ch/>

_____

AOL now offers free email to everyone.
Find out more about what's free from AOL at AOL.com

<http://www.aol.com/?ncid=AOLAOF00020000000437> .

717. Re: [Racal6790GM] Link to the complete Manual for the Hagenuk RX 1001 M

Yahoo group: Racal6790GM
Date: 2007-05-16 20:32:27 UTC
From: gandalfg8@aol.com
Topic: 717 Message: 717

In a message dated 16/05/2007 20:48:19 GMT Daylight Time,
fenu@... writes:

Hi Al
Hi Group

Here the link to the Hagenuk RX 1001 M Manual.

http://www.fenu-http://wwhttp:/ (http://www.fenu-radio.ch/Manual) Hagenuk
RX 1001 M.zip

Best regards and have fun

Hi Fernando

Many thanks for the link, but it doesn't seem to be working.

regards

Nigel
GM8PZR

719. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-16 18:31:28 UTC
From: Fernando Duarte
Topic: 697 Message: 719

Hi Jim,

Thank you.

But I search the Manual for the RA-6793.
The manual for the RA6790 I have.
Sorry
Fernando

James Colbert schrieb:

Found it! I'll try to send it along as an attachment. It is, however, several hundred pages long. If it doesn't make it I can burn it onto a CD and send it to you. Let's see what happens . . .

Jim

-----Original Message-----
>From: Fernando Duarte <fenu@swissonline.ch>
>Sent: May 16, 2007 10:32 AM
>To: Racal6790GM@yahoogroups.com
>Subject: Re: [Racal6790GM] Searching one Racal RA6790/GM
>
>
>
>Have any one a pdf Manual from the Racal RA-6793?
>
>regards
>Fenu
>
>
>

720. Re: Link to the complete Manual for the Hagenuk RX 1001 M

Yahoo group: Racal6790GM
Date: 2007-05-16 21:04:43 UTC
From: Fernando
Topic: 717 Message: 720

```
**********
**********
Many sorry!!!
Here the Link, now its OK!!

http://www.fenu-radio.ch/Manual_Hagenuk_RX_1001_M.zip

best regards
Fernando

**********
**********
--- In Racal6790GM@yahoogroups.com, gandalfg8@... wrote:
>
>
> In a message dated 16/05/2007 20:48:19 GMT Daylight Time,
> fenu@... writes:
>
> Hi Al
> Hi Group
>
> Here the link to the Hagenuk RX 1001 M Manual.
>
> _http://www.fenu-http://wwhttp:/_ (http://www.fenu-
radio.ch/Manual) Hagenuk
> RX 1001 M.zip
>
> Best regards and have fun
>
>
> ----------------------------------------
> Hi Fernando
>
> Many thanks for the link, but it doesn't seem to be working.
>
> regards
>
> Nigel
> GM8PZR
>
```

721. Link to the complete Manual for the Hagenuk RX 1001 M

Yahoo group: Racal6790GM
Date: 2007-05-16 19:51:22 UTC
From: Fernando Duarte
Topic: 717 Message: 721

Sorry This is the right Link.

Hi Al
Hi Group

Here the link to the Hagenuk RX 1001 M Manual.

http://www.fenu-radio.ch/Manual_Hagenuk_RX_1001_M.zip

Best regards and have fun

Fernando

722. Re: [Racal6790GM] Link to the complete Manual for the Hagenuk RX 1001 M

Yahoo group: Racal6790GM
Date: 2007-05-16 22:01:59 UTC
From: gandalfg8@aol.com
Topic: 717 Message: 722

In a message dated 16/05/2007 22:37:16 GMT Daylight Time,
fenu@... writes:
Sorry This is the right Link.

Hi Al
Hi Group

Here the link to the Hagenuk RX 1001 M Manual.

http://www.fenu-radio.ch/Manual_Hagenuk_RX_1001_M.zip

Best regards and have fun

Fernando

Thanks Fernando

All working fine now

regards

Nigel
GM8PZR

723. Re: [Racal6790GM] Searching one Racal RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-05-16 22:08:36 UTC
From: gandalfg8@aol.com
Topic: 697 Message: 723

In a message dated 16/05/2007 19:24:16 GMT Daylight Time,
francis.carcia@... writes:

you can down load this manual from premium rx

Hi Frank

When I saw this I thought you were referring to the 6793, until I saw Peter
De Coninck's name on the 1001 manual:-)

Thanks for the reminder, there's a couple more there I hadn't seen too.

regards

Nigel
GM8PZR

724. 6793/A Manual

Yahoo group: Racal6790GM
Date: 2007-05-17 14:15:08 UTC
From: oscar873@aol.com
Topic: 724 Message: 724

Hi,
I saw some discusion on the Manual for 6793/A.
Is there a link or does some one have a pdf copy?
Thanks
Al

AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com.

725. R2174B MANUAL NEEDED

Yahoo group: Racal6790GM
Date: 2007-05-17 14:19:29 UTC
From: oscar873@aol.com
Topic: 725 Message: 725

I am looking for a R2174B (6790GM) LF and HF receiver manual.
Thanks
Al

_____
AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com.

726. Re: [Racal6790GM] R2174B MANUAL NEEDED

Yahoo group: Racal6790GM
Date: 2007-05-17 18:39:39 UTC
From: gewingerd@netzero.com
Topic: 725 Message: 726

Al,

The R2174B is a USAF receiver and only the USAF has copies of the manual.

Gary

727. Anyone worked on Racal MA 1723 HF exciter synth board ?

Yahoo group: Racal6790GM
Date: 2007-05-18 17:19:08 UTC
From: Graham
Topic: 727 Message: 727

Ok .. its not a 6790 but .....

If you know the set, you will know the board ....

I can only get the varactor control line voltage up to 13 V , that's
2
V short of the
spec in the handbook ..

But by reducing L17 , you can get the synth to lock at 29.9999 with
a line voltage of 13.2 V .. ae output signal is on freq and
stable ..

Is this a fault or was it not allways possible to reach 15 v on a
'older' synth board ?

Tnx - G ..

728. Re: [Racal6790GM] Anyone worked on Racal MA 1723 HF exciter synth board ?

Yahoo group: Racal6790GM
Date: 2007-05-18 22:43:31 UTC
From: Dan Rae
Topic: 727 Message: 728

Graham wrote:

>Ok .. its not a 6790 but .....
>
>If you know the set, you will know the board ....
>
>
Graham, it's pretty much the same as the later Mk IV LSI synths that
were used in the last incarnation of the RA1792, less a couple of digits
of resolution or three.

>I can only get the varactor control line voltage up to 13 V , that's
>2
>V short of the
>spec in the handbook ..
>
>
So long as it has enough range to lock at both ends then you should be
fine. It is usually the lower end that gives trouble since that is the
end that changes most with temperature. If the LF end is fine you do
not have a problem.
73
Dan
ac6ao / g3ncr

729. Re: [Racal6790GM] Anyone worked on Racal MA 1723 HF exciter synth board ?

Yahoo group: Racal6790GM
Date: 2007-05-19 13:11:51 UTC
From: Graham Graham
Topic: 727 Message: 729

Ok Dan,

Slowly working through the pile of dead sets , the scope went first followed by the c/timer then the little racal hf tester produced a 2 tone test just long enough to test the exciter .. ive even had to open a a/c with rscomponents to get the parts ! ... its supposed to be a hobbie ....now im not sure the dvm is in cal as the 15v and 12v fixed regs are showing 200mV high the avo is showing 'spot on' .. need to find one in cal ....

I thought I would get everything working before I took on the 1778 , i have the book now , only black and white copy , but guy over in holland sent me a colour scan of his board layouts for the up/down dispay etc ..

The exciter is starting to have a new problem every time you turn it on .. , upto now its been in the signal path, I got the vco to lock over the full range, at turn on the voltage is showing 14 v but still failing self test on mixer board o/p at 29999 mhz .ive adjusted the inductor so it locks at 13.2 , this is the best voltage i can get , if i go over its not 100 p/c but the o/p was fine .. at 150 khx > 30 mhz

.. now the tune mode will not select , run self test 06 display test and the led dosent light and the one next to it .. it ran all day yesterday and everything was fine .. turned it on this moring and it took about 5 mins to lock up .. put all the covers back ,turned it over , now it dosent select tune or tx ....

may be a connector not 'home' ..... 1778 is starting to look more fun ..

Rgds

Graham ..

>From: Dan Rae <danrae@...>
>Reply-To: Racal6790GM@yahoogroups.com
>To: Racal6790GM@yahoogroups.com
>Subject: Re: [Racal6790GM] Anyone worked on Racal MA 1723 HF exciter synth
>board ?
>Date: Fri, 18 May 2007 15:43:31 -0700
>
>Graham wrote:
>
> >Ok .. its not a 6790 but .....
> >
> >If you know the set, you will know the board ....
> >

> >
>Graham, it's pretty much the same as the later Mk IV LSI synths that
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>fine. It is usually the lower end that gives trouble since that is the
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>not have a problem.
>73
>Dan
>ac6ao / g3ncr
>
>
>

New, exclusive and FREE - Download Madonna's "Hey You" now!
http://www.liveearth.msn.com

730. Re: [Racal6790GM] R2174B MANUAL NEEDED

Yahoo group: Racal6790GM
Date: 2007-05-21 14:02:17 UTC
From: oscar873@aol.com
Topic: 725 Message: 730

Gary,
USAF? Is there a TM number fot it?
Any idea where they can be purchased?
Al

-----Original Message-----
From: gewingerd@...
To: Racal6790GM@yahoogroups.com
Sent: Thu, 17 May 2007 11:39 AM
Subject: Re: [Racal6790GM] R2174B MANUAL NEEDED

Al,

The R2174B is a USAF receiver and only the USAF has copies of the
manual.

Gary

_____
AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com.

731. RE: [Racal6790GM] R2174B MANUAL NEEDED

Yahoo group: Racal6790GM
Date: 2007-05-21 20:28:05 UTC
From: Gordon & Lois Duff
Topic: 725 Message: 731

Gary,

I am surprised by the USAF. I would have thought it was the Navy. Any idea what they used them for?

Gordon.

No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.5.467 / Virus Database: 269.7.6/814 - Release Date: 5/21/2007 2:01 PM

732. Re: [Racal6790GM] R2174B MANUAL NEEDED

Yahoo group: Racal6790GM
Date: 2007-05-21 20:52:42 UTC
From: Dan Rae
Topic: 725 Message: 732

Gordon & Lois Duff wrote:

>
> I am surprised by the USAF. I would have thought it was the Navy.

Everyone up to now has said USN, and they are known for not releasing manuals. Also seeing as frequencies around 10 to 20 kHz *are* used for various underwater voice communication devices, submarine emergency beacons and the like according to Janes, the USN is a distinct possibility. I have a set of the firmware eproms here that were said to have come from the Canadian Navy version and they are very odd indeed when put in a regular GM.

If one ever came up cheap enough I'd have a go at reverse engineering it, but so far for what is a pretty useless radio they fetch silly prices.

Dan

733. RE: [Racal6790GM] R2174B MANUAL NEEDED

Yahoo group: Racal6790GM
Date: 2007-05-22 09:24:37 UTC
From: gewingerd@netzero.com
Topic: 725 Message: 733

The units were built for the USAF via Ft.Meade (NSA), from there they may have went anywhere in the world. There were only about 100 built plus some spares. I may have a manual that covers all the same cards in the unit. I will need to know all the cards that are inside.
I worked at NSA for 5 years while I was in the Air Force so I know about getting info of any kind will be next to impossible.

Thanks,
Gary

734. Re: [Racal6790GM] Digest Number 305

Yahoo group: Racal6790GM
Date: 2007-05-22 16:51:19 UTC
From: Had
Topic: 734 Message: 734
Attachments: 1 described; binary payloads are missing from this source WARC

A quick search on the Federal Stock Number for the R-2174(P)/URR (5820-01-092-0435) turns up the following:

Between 2-12-1980 and 8-15-1994 the government purchased 2612 of the above version of R-2174's, spread out over 25 PO's

Other indications are that a lot of them went here.

DEPARTMENT OF THE AIR FORCE
HQ AIR INTELLIGENCE AGENCY

[]

Had, K7MLR

735. Re: [Racal6790GM] Digest Number 305

Yahoo group: Racal6790GM
Date: 2007-05-22 16:51:19 UTC
From: Had
Topic: 734 Message: 735
Attachments: 1 described; binary payloads are missing from this source WARC

A quick search on the Federal Stock Number for the R-2174(P)/URR (5820-01-092-0435) turns up the following:

Between 2-12-1980 and 8-15-1994 the government purchased 2612 of the above version of R-2174's, spread out over 25 PO's

Other indications are that a lot of them went here.

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Had, K7MLR

736. Some Racal R-2174 numbers.

Yahoo group: Racal6790GM
Date: 2007-05-22 23:22:17 UTC
From: jon_fl_swl
Topic: 736 Message: 736

R-2174(P)/URR NSN 5820-01-092-0435
Manual: T.O. 31R2-2URR-251 (TM 32-5820-030-14&P)
"09-DIST RESTRICTION - LIMITED TO GOVT AGENCIES ONLY"

model date contract no.
R-2174 1984/08 F0460683C0535, 22 units $4,535.00 EA
R-2174 1994/08 F0960394C0957, 2 units $26,310.00 EA

R-2174A(P)/URR NSN 5820-01-175-5899
Manual: T.O. 31R2-2URR-251 (TM 32-5820-030-14&P)
"09-DIST RESTRICTION - LIMITED TO GOVT AGENCIES ONLY"

R-2174B(P)/URR NSN 5820-01-363-9549
Manual: none listed in DA PAM 25-30.

Jon-FL Zirc IRC Network channels #wunclub and #monitor
..where the serious v2a/m8a/e3/e10/etc monitors hangout :) (2x Icom IC-R75,Racal RA6790/GM, WJ-8716, AOR ar-8200-MK3, GE Superadio III, t2fd)

737. Re: RE : [Racal6790GM] sensitivity quick test

Yahoo group: Racal6790GM
Date: 2007-05-28 13:14:02 UTC
From: Graham
Topic: 689 Message: 737

On the white noise, I think that is something that , at first , tends to distract . I wondered about that , but , found the sensitivity of the rx was actually quite good , after sneaking the set into work and putting it on a 'good' sig-gen , I found on 5 mhz that even with the attenuator at maximum , could still detect a fractional microvolt level carrier using ssb .

For a comparison , I have a skanti R5003 , which is a marine rx 10khz/30mhz with a similar layout , no rf amp , 4 fet mixer , 45 mhz /1.4 mhz if .. After building the ARRA medium wave 'high pass' filter , Using the R5003 all except the local mw station disappeared .. When I connected the racal .. could copy all the mw signals but at a much lower level .. the rx noise floor is a magnitude lower ..

I get one or two s-meter bars of noise just by connecting the ae on 7 mhz , it is a misleading rx to get used to as the agc hang is a little mechanical in its operation and the dynamic range is so high the agc action is quite noticable .. a bit like when CD's replaced compact tapes .. the quite bit got quietr and the loud bits ..louder .. but in reverse if you see what I mean .

G ..

--- In Racal6790GM@yahoogroups.com, philippe gombert <philgievres@...> wrote:
>
> Hello
>
> Ihave somme racal receiver, i know this equipment.
>
> I you need some informations (manual or software...
>
> Best regards
>
> Phiippe F1ETA
>
> F5QE@... a écrit :
> hi, I thinking a problem in the A2 FIRST MIXER
>
> But I dont have HF generator my question : any compare 2rigs
>
> on the air my FT1000MP on 7mhz LSB qso indicate S9 s meter
>
> same time my 6790 indicate " 6 " at the RF LCD no other "fault bite test !

>
> and many white noisy after the AGC delay !
>
> All is right or real trouble ??
>
> merci 73 Paul F5QE
>
>
>
>
> ---------------------------------
> Découvrez une nouvelle façon d'obtenir des réponses à toutes vos
questions ! Profitez des connaissances, des opinions et des
expériences des internautes sur Yahoo! Questions/Réponses.
>

738. Re: RE : [Racal6790GM] sensitivity quick test

Yahoo group: Racal6790GM
Date: 2007-05-28 21:53:39 UTC
From: Ed Tanton
Topic: 689 Message: 738

Graham... where is the reference/etc. for that filter? Thanks.

///snip

For a comparison , I have a skanti R5003 , which is a marine rx
10khz/30mhz with a similar layout , no rf amp , 4 fet mixer , 45
mhz /1.4 mhz if .. After building the

ARRA medium wave 'high pass' filter

Using the R5003 all except the local mw station
disappeared .. When I connected the racal .. could copy all the mw
signals but at a much lower level .. the rx noise floor is a
magnitude lower ..
///snip

Ed Tanton

website: http://www.n4xy.com (http://www.n4xy.com/)

All emails & checked by
Norton AntiVirus with AutoProtect

"Right is right, even if everyone is
against it; and wrong is wrong, even
if everyone is for it."

William Penn
---

739. Re: RE : [Racal6790GM] sensitivity quick test

Yahoo group: Racal6790GM
Date: 2007-05-30 23:33:33 UTC
From: Graham
Topic: 689 Message: 739

.... but the 6790 dont need one .. :-)

ARRL Handbook 1999 , chapter 16 , page 16.36 'A BC-BAND ENERGY REJECTION FILTER' looking at the responce plot, its -60 / -70 db insertion loss below 1.4 Mhz .. quite a usefull filter . G ..

740. Frequency display problem

Yahoo group: Racal6790GM
Date: 2007-06-04 16:51:15 UTC
From: carlo.onorato
Topic: 740 Message: 740

In my RA6790/GM US Serial 5966 the figure of the hundreds of KHz has the seven segments always switched on (it indicates 8). I have the manual, but i cannot detect the phisical position of the correspondent driver 4056 on the electronic card. Please can someone help me? Sorry for my bad english and thanks a lot. 73, 51. Carlo Onorato I1KAR.

741. Re: [Racal6790GM] Frequency display problem

Yahoo group: Racal6790GM
Date: 2007-06-05 08:58:16 UTC
From: gewingerd@netzero.com
Topic: 740 Message: 741

A9 Troubleshooting
Problem: Part of the display is out on the LCD BFO Readout (Bad Segment)
You can test the Driver Chips for the LCD with a Multi-meter with a Diode Scale on it, each of the drivers will read .7 Volts, the bad driver segment will not read at all. In my case it was the 100 Hz driver U31.
Note: The 10 MHz Digit driver is U16 which is 1a thru 1g, and the last Driver is U10 which is 11a thru 11g (this is the BFO 10 Hz Digit).

I carry the LCD's in stock and the driver chips also.

Hope this helps,
Gary

742. S Meter

Yahoo group: Racal6790GM
Date: 2007-06-06 19:24:28 UTC
From: m0tdh
Topic: 742 Message: 742

I have a RA6790/GM (R-2174A) here on test. I noticed that the meter only reads 4 on the RF scale on a very strong Broadcast station. The sensitivity of the radio compared to a RA1792 & a Eddystone 1650 is fine. Pulls in weak stations no problem. Is this a quirk of the RA6790, or a fault?

Dave.

743. Re: [Racal6790GM] S Meter

Yahoo group: Racal6790GM
Date: 2007-06-06 20:17:45 UTC
From: Dan Rae
Topic: 742 Message: 743

m0tdh wrote:

>I have a RA6790/GM (R-2174A) here on test. I noticed that the meter
>only reads 4 on the RF scale on a very strong Broadcast station. The
>sensitivity of the radio compared to a RA1792 & a Eddystone 1650 is
>fine. Pulls in weak stations no problem. Is this a quirk of the RA6790,
>or a fault?
>
>

Dave, the RF level meter of both the 6790/GM and 1792 are pretty much identical, i.e. they give one blob for every 10 dB over 1 ?Volt, with pretty good accuracy, *IF* they are aligned correctly. The process for setting up the AGC and thus the meter is very similar for both.

Good luck,
Dan
ac6ao / g3ncr

744. Re: S Meter

Yahoo group: Racal6790GM
Date: 2007-06-07 22:14:27 UTC
From: m0tdh
Topic: 742 Message: 744

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> m0tdh wrote:
>
> >I have a RA6790/GM (R-2174A) here on test. I noticed that the
meter
> >only reads 4 on the RF scale on a very strong Broadcast station.
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>

Thanks for that Dan,
I no longer have the RA1792 here as it was not
mine, so not able to check it. Not a Radio I would want to own. I was
told it suffered the normal RA1792 "Brain Death" not long after.
The 6790 I have here is fine apart from low S meter readings. S9+20
40M SSB stations read nothing at all on it. But it receives
weak ones so well that the alignment must be fine. The RA1792 S Meter
only reacted to very strong broadcast stations, also. But did read
higher. I put that down to it having a RF stage before the first
mixer. Yet it seemed no better on weak ones than the 6790.

Regards,

Dave.

745. Re: [Racal6790GM] Re: S Meter

Yahoo group: Racal6790GM
Date: 2007-06-08 01:32:38 UTC
From: FRANCIS CARCIA
Topic: 742 Message: 745

There are 2 agc curves that need to overlap correctly for the S meter to work properly. 1 is the agc to the UA757 and the other is the first iF pin diodes that should kick in at less than about 8.5 volts AGC. There are three pots that need to be set in the AGC to get the right action. There is a procedure here somewhere. 1 is the ua757 gain . 2 is the agc threshold and the third sets the voltage the pins start working. It sounds like the pins start at the same time as the 757 so you don't get a lot of s meter action. The same circuit is used in my 6830. A bit tricky to get right but fairly good if you are lucky. gfz

m0tdh <m0tdh@...> wrote: --- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> m0tdh wrote:
>
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Regards,

Dave.

746. Re: S Meter

Yahoo group: Racal6790GM
Date: 2007-06-08 22:38:53 UTC
From: m0tdh
Topic: 742 Message: 746

--- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
> There are 2 agc curves that need to overlap correctly for the S meter to work properly. 1 is the agc to the UA757 and the other is the first iF pin diodes that should kick in at less than about 8.5 volts AGC. There are three pots that need to be set in the AGC to get the right action. There is a procedure here somewhere. 1 is the ua757 gain . 2 is the agc threshold and the third sets the voltage the pins start working. It sounds like the pins start at the same time as the 757 so you don't get a lot of s meter action. The same circuit is used in my 6830. A bit tricky to get right but fairly good if you are lucky. gfz
>
> m0tdh <m0tdh@...> wrote: --- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@> wrote:
> >
> > m0tdh wrote:
> >
> > >I have a RA6790/GM (R-2174A) here on test. I noticed that the
> meter
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> higher. I put that down to it having a RF stage before the first
> mixer. Yet it seemed no better on weak ones than the 6790.
>
> Regards,
>
> Dave.
>

Many thanks for that info Francis.
I have the data now from the group. But no Spectrum Analyzer here &
my Marconi RF Voltmeter is needing a new input lead at this time.
I will find a way around that, or maybe someone in the group knows
how to do it by another route.

Cheers!

Dave.

747. My receiver

Yahoo group: Racal6790GM
Date: 2007-06-09 07:48:25 UTC
From: I Z 6 E G K
Topic: 747 Message: 747

Symptoms:
four segments in the LCD bar-graph are always on and very fast intermittently blinking. Only if I set MANUAL AGC and IF GAIN fully CW they disappear or fully CCW the bar graph is completely illuminated and the blinking disappears. Lot of noise and poor sensitivity.

On CW mode the FAULT led illuminates. Sometimes in LSB mode too.
The no. 3 red led which is on the rear of the A9 board blinks with the same frequency of the bar-graph.

Performing the BYTE test I always get the no. 04 code.
So I checked the A8 board as specified in point i. Second LO/BFO Synthesizer in the Racal RA6790/GM Alignment & Tuning Manual but it seems to me that values found are within the correct ranges.

I then wanted to follow the Gary Wingerd's Paper Basic fault isolation procedure and:
Unplugged the following connectors:
W21 First Mixer A2
W22 Second Mixer A3
W13 First LO Synthesizer A7
W14 Second LO/BFO Synthesizer A8
W15 Main IF/AF A4
Removed the A6A1 Remote Interface Card.

The front panel operates correctly.

The intermittent blinking above mentioned reappears only when I plug again the W15 Main IF/AF A4 connector.

Tools available here:
Frequency counter, Digital multimeter, RF millivoltmeter, Signal generator, Oscilloscope. No Spectrum Analyzer. All the patience needed. Low skill (aaaarrrrgh!)

What do you think about that bar-graph ?

Many tnx
73 Pierluigi iz6egk

748. Re: [Racal6790GM] My receiver

Yahoo group: Racal6790GM
Date: 2007-06-09 16:03:59 UTC
From: gewingerd@netzero.com
Topic: 747 Message: 748

The problem is on the A8 card "Third LO synthesizer not locked after 100 milliseconds"
You have to repair the A8 card, if you need the schematics you can download them form the Yahoo site.

The A8 card has the 2nd LO on it, the 3rd LO on it which is the CW 455 KHZ +/- 8 KHZ BFO, the card also has the Reference for the receiver and a Reference output 1,5,10 MHZ which is set by the links. The coil that is adjusted on the card is the CW BFO alignment, try aligning the coil high and low and see if the problem goes away.

If all else fails I can repair the card for you, all I would need is the card.

Gary

749. Re: [Racal6790GM] Re: S Meter

Yahoo group: Racal6790GM
Date: 2007-06-11 01:10:13 UTC
From: FRANCIS CARCIA
Topic: 742 Message: 749

All you need is a calibrated signal generator and a volt meter. A scope can be used to look at the IF output. Just convert peak to peak to RMS

m0tdh <m0tdh@...> wrote: --- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
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> m0tdh <m0tdh@...> wrote: --- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@> wrote:
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> > m0tdh wrote:
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> >
>
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I have the data now from the group. But no Spectrum Analyzer here &
my Marconi RF Voltmeter is needing a new input lead at this time.
I will find a way around that, or maybe someone in the group knows
how to do it by another route.

Cheers!

Dave.

750. Need manual for RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-06-19 00:08:43 UTC
From: hamguy123
Topic: 750 Message: 750

Hi all, I just got in a Racal RA6790/GM. It needs some work, shows all ZEROS but upon a quick inspection I see one tantalum cap on the A4 board that is missing half of it so I am hoping that could be the problem. I can download a service manual but is there such a thing as an Operators or Instruction manual for the RA6790/GM? If anyone has one or knows where to get one can you send me a .pdf file of it or a link?

Thanks,
Adam Farber
Cooper City, FL

751. Re: [Racal6790GM] Need manual for RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-06-19 09:03:44 UTC
From: gandalfg8@aol.com
Topic: 750 Message: 751

In a message dated 19/06/2007 01:12:18 GMT Daylight Time, adamf@...
writes:

Hi all, I just got in a Racal RA6790/GM. It needs some work, shows all
ZEROS but upon a quick inspection I see one tantalum cap on the A4
board that is missing half of it so I am hoping that could be the
problem. I can download a service manual but is there such a thing as
an Operators or Instruction manual for the RA6790/GM? If anyone has
one or knows where to get one can you send me a .pdf file of it or a link?

Hi Adam

The 6790 manual is combined Ops and Service so you'll find an installation
section near the beginning followed by operating instructions, with schematics
etc later, so if you download the service manual that should give you most,
if not all, the information you need.

The blown cap is unlikely to be the complete answer to your existing problem
if half really is totally missing, as it's likely then to be open circuit,
but if there's enough left for both leads to be attached to some of the body
then it might still show a short.
The A4 board though is the IF amp and I would have thought all zeros on the
display is more likely to indicate a CPU or encoder interface problem.
Tantalum failure on these sets is quite common, as with other equipment from
that era and not only Racal.
Normal failure mode is to go short circuit.
Usually they are across power lines so if the tantalum does totally self
destruct that could clear the fault but most times they sit shorted and pull the
supply down.
Metering supply rails on the various boards should help trace any others
that might have failed.

Whilst tantalums can fail without showing any signs the fact they are
generally across the supply does mean they are likely to cook internally. If the
pressure doesn't actually split the case there's often a tell tale small hole
left where the smoke has vented, could be as small as pinprick size, perhaps
with a small blob of metal attached that looks a bit like a solder splash.
If you're working on a set when one goes it can be quite startling, perhaps
a bang or a fairly obvious expulsion hiss but not always, with a quick burst
of smoke, but when it clears still not always easy to identify the failed
component.

I'm not sure if this would apply to the 6790, but another thing to watch out
for is associated component damage.
Even if the supply is designed to shut down under short conditions a shorted

decoupling cap behind a series resistor or inductor can draw enough current
to cook that component, even to the point of it becoming open circuit,
without shutting the supply down during the process.

Of course, you may have other faults too but it's surprising how often
clearing shorted tantalums can restore full operation to an apparently dead piece
of equipment.
It's finding them can be the fun sometimes:-)

regards

Nigel
GM8PZR

752. RE: [Racal6790GM] Need manual for RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-06-19 10:30:41 UTC
From: George Georgevits
Topic: 750 Message: 752

Hi Adam, Nigel,

Yes I have a Tek 492 spec anz with what I suspect is the same problem. I repaired it last year by replacing a shorted tantalum capacitor. I simply checked the supply rails, found which one was down, and then one by one I unplugged cards until the rail came back up again. It was easy then to find the culprit, which, by the way showed no signs of distress (although I admit I didn't look for pinholes).
Regards,
George

VK2KGG
-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]On Behalf Of gandalfg8@...
Sent: Tuesday, 19 June 2007 7:04 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Need manual for RA6790/GM

In a message dated 19/06/2007 01:12:18 GMT Daylight Time, adamf@... writes:
Hi all, I just got in a Racal RA6790/GM. It needs some work, shows all ZEROS but upon a quick inspection I see one tantalum cap on the A4 board that is missing half of it so I am hoping that could be the problem. I can download a service manual but is there such a thing as an Operators or Instruction manual for the RA6790/GM? If anyone has one or knows where to get one can you send me a .pdf file of it or a link?

Hi Adam

The 6790 manual is combined Ops and Service so you'll find an installation section near the beginning followed by operating instructions, with schematics etc later, so if you download the service manual that should give you most, if not all, the information you need.

The blown cap is unlikely to be the complete answer to your existing problem if half really is totally missing, as it's likely then to be open circuit, but if there's enough left for both leads to be attached to some of the body then it might still show a short.
The A4 board though is the IF amp and I would have thought all zeros on the display is more likely to indicate a CPU or encoder interface problem.
Tantalum failure on these sets is quite common, as with other equipment from that era and not only Racal.
Normal failure mode is to go short circuit.

Usually they are across power lines so if the tantalum does totally self destruct that could clear the fault but most times they sit shorted and pull the supply down.
Metering supply rails on the various boards should help trace any others that might have failed.

Whilst tantalums can fail without showing any signs the fact they are generally across the supply does mean they are likely to cook internally. If the pressure doesn't actually split the case there's often a tell tale small hole left where the smoke has vented, could be as small as pinprick size, perhaps with a small blob of metal attached that looks a bit like a solder splash.
If you're working on a set when one goes it can be quite startling, perhaps a bang or a fairly obvious expulsion hiss but not always, with a quick burst of smoke, but when it clears still not always easy to identify the failed component.

I'm not sure if this would apply to the 6790, but another thing to watch out for is associated component damage.
Even if the supply is designed to shut down under short conditions a shorted decoupling cap behind a series resistor or inductor can draw enough current to cook that component, even to the point of it becoming open circuit, without shutting the supply down during the process.

Of course, you may have other faults too but it's surprising how often clearing shorted tantalums can restore full operation to an apparently dead piece of equipment.
It's finding them can be the fun sometimes:-)

regards

Nigel
GM8PZR

753. RE: [Racal6790GM] Need manual for RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-06-19 11:18:13 UTC
From: Adam Farber
Topic: 750 Message: 753

Hi Nigel. I'll replace the caps, if that does not do it then I'll do the board process of elimination.

Thanks again,

Adam

At 08:30 PM 6/19/2007 +1000, you wrote:

>Hi Adam, Nigel,
>
>Yes I have a Tek 492 spec anz with what I suspect is the same problem. I
>repaired it last year by replacing a shorted tantalum capacitor. I simply
>checked the supply rails, found which one was down, and then one by one I
>unplugged cards until the rail came back up again. It was easy then to
>find the culprit, which, by the way showed no signs of distress (although
>I admit I didn't look for pinholes).
>
>Regards,
>George
>
>VK2KGG
>-----Original Message-----
>From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]On
>Behalf Of gandalfg8@...
>Sent: Tuesday, 19 June 2007 7:04 PM
>To: Racal6790GM@yahoogroups.com
>Subject: Re: [Racal6790GM] Need manual for RA6790/GM
>
>In a message dated 19/06/2007 01:12:18 GMT Daylight Time, adamf@...
>writes:
>>
>>Hi all, I just got in a Racal RA6790/GM. It needs some work, shows all
>>ZEROS but upon a quick inspection I see one tantalum cap on the A4
>>board that is missing half of it so I am hoping that could be the
>>problem. I can download a service manual but is there such a thing as
>>an Operators or Instruction manual for the RA6790/GM? If anyone has
>>one or knows where to get one can you send me a .pdf file of it or a link?
>----------------------------------
>
>Hi Adam
>
>The 6790 manual is combined Ops and Service so you'll find an installation
>section near the beginning followed by operating instructions, with
>schematics etc later, so if you download the service manual that should
>give you most, if not all, the information you need.

>
>The blown cap is unlikely to be the complete answer to your existing
>problem if half really is totally missing, as it's likely then to be open
>circuit, but if there's enough left for both leads to be attached to some
>of the body then it might still show a short.
>The A4 board though is the IF amp and I would have thought all zeros on
>the display is more likely to indicate a CPU or encoder interface problem.
>Tantalum failure on these sets is quite common, as with other equipment
>from that era and not only Racal.
>Normal failure mode is to go short circuit.
>Usually they are across power lines so if the tantalum does totally self
>destruct that could clear the fault but most times they sit shorted and
>pull the supply down.
>Metering supply rails on the various boards should help trace any others
>that might have failed.
>
>Whilst tantalums can fail without showing any signs the fact they are
>generally across the supply does mean they are likely to cook internally.
>If the pressure doesn't actually split the case there's often a tell tale
>small hole left where the smoke has vented, could be as small as pinprick
>size, perhaps with a small blob of metal attached that looks a bit like a
>solder splash.
>If you're working on a set when one goes it can be quite startling,
>perhaps a bang or a fairly obvious expulsion hiss but not always, with a
>quick burst of smoke, but when it clears still not always easy to identify
>the failed component.
>
>I'm not sure if this would apply to the 6790, but another thing to watch
>out for is associated component damage.
>Even if the supply is designed to shut down under short conditions a
>shorted decoupling cap behind a series resistor or inductor can draw
>enough current to cook that component, even to the point of it becoming
>open circuit, without shutting the supply down during the process.
>
>Of course, you may have other faults too but it's surprising how often
>clearing shorted tantalums can restore full operation to an apparently
>dead piece of equipment.
>It's finding them can be the fun sometimes:-)
>
>regards
>
>Nigel
>GM8PZR
>
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754. Re: [Racal6790GM] Need manual for RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-06-19 11:57:39 UTC
From: gandalfg8@aol.com
Topic: 750 Message: 754

In a message dated 19/06/2007 12:21:44 GMT Daylight Time, adamf@...
writes:

Hi Nigel. I'll replace the caps, if that does not do it then I'll do the
board process of elimination.

Hi Adam

Whilst replacing all the caps is a good idea anyway, it can take quite a
time, and might not be the cause of your problem in this instance.

For initial fault finding, It's probably worth just checking the supply
rails.
If one is low at the PSU, then disconnect modules until, hopefully, it comes
back up again.
If all seems ok at the PSU, try checks on the individual boards, any PSU
loading could be masked by series components as I suggested before.

If you can't find any supply problems then I'd change the one obviously
faulty tantalum for now, but then concentrate on tracing the actual problem
before worrying too much about changing the other caps.

There's always the risk you might introduce another problem with changing
them, a solder bridge perhaps, and it's nice to have a reference for that, ie
"it was working before I changed this one and not now", rather than not being
sure.

As an example, I've got a fan cooled tracking scope sitting on the floor
next to me that I stripped and cleaned recently, it was full of fluff and dust
and generally quite grubby, before powering it up.
Cleaning also involved removing and dusting off some plug in boards.
It powers up ok, RF section seems to be working, but no display.
I'm kicking myself now because I don't have a manual and don't know if it
wasn't working anyway or if I caused a problem while cleaning it.
A quick check before worrying about the "housekeeping" could have made all
the difference!!

You have been warned :-)

regards

Nigel
GM8PZR

755. Re: [Racal6790GM] Need manual for RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-06-19 14:07:34 UTC
From: toddroberts2001@aol.com
Topic: 750 Message: 755

In a message dated 6/19/2007 6:36:38 AM Eastern Standard Time,
georgg@... writes:
I'm not sure if this would apply to the 6790, but another thing to watch out
for is associated component damage.
Even if the supply is designed to shut down under short conditions a shorted
decoupling cap behind a series resistor or inductor can draw enough current to
cook that component, even to the point of it becoming open circuit, without
shutting the supply down during the process.

Hi Nigel,
I have seen a few cases in a 6790 where a shorted tantalum cooked a
series choke in the power supply trace going to the tantalum. The small choke
looked like a resistor but checking the schematic showed it to be an inductor.
It is common for a small choke to be in series with a tantalum for decoupling
the power trace. In these cases the shorted tantalum looked fine but the
inductor was cooked to open circuit. It pays to check the board closely around any
suspect tantalums for burn damage to other components. Luckily places like
Mouser have a good selection of tantalums as well as small inductors to get a 6790
up and running again! I usually replace the tantalums with at least a 35 volt
unit on a 12-15 volt line or even a 5 volt line as the price isn't much
higher and the size of the newer tantalums are smaller than the originals even with
the higher voltage rating.
73 Todd WD4NGG

********** See what's free at http://www.aol.com.

756. Re: [Racal6790GM] Need manual for RA6790/GM

Yahoo group: Racal6790GM
Date: 2007-06-19 15:57:00 UTC
From: gandalfg8@aol.com
Topic: 750 Message: 756

In a message dated 19/06/2007 15:09:13 GMT Daylight Time,
toddroberts2001@... writes:

I have seen a few cases in a 6790 where a shorted tantalum cooked a
series choke in the power supply trace going to the tantalum. The small
choke
looked like a resistor but checking the schematic showed it to be an
inductor.
It is common for a small choke to be in series with a tantalum for
decoupling
the power trace. In these cases the shorted tantalum looked fine but the
inductor was cooked to open circuit. It pays to check the board closely
around any
suspect tantalums for burn damage to other components. Luckily places like
Mouser have a good selection of tantalums as well as small inductors to get
a 6790
up and running again! I usually replace the tantalums with at least a 35
volt
unit on a 12-15 volt line or even a 5 volt line as the price isn't much
higher and the size of the newer tantalums are smaller than the originals
even with
the higher voltage rating.

Hi Todd

The scenario you describe is exactly what I was thinking of.
I wasn't sure without checking what the arrangements were on the 6790 but I
had just that problem with a Sayrosa HF drive unit about a year ago.
I must admit I cheated a bit on that one, at least one "inductor" is still
just a wire link and a couple of the failed tantalums are normal electrolytics
for now.
That's what happens when nearly all your kit is in storage:-)

I've got a WJ quad 8 also with one electrolytic temporarily in place of a
failed tantalum.
Not something I'd necessarily recommend, and all will be sorted once I can
get to my buried components, but generally not much of a problem as long as
space isn't an issue and certainly a worthwhile "emergency" fix.

regards

Nigel
GM8PZR

757. Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 13:15:32 UTC
From: hamguy123
Topic: 757 Message: 757

Hi all, last week I posted that I had received an RA6790/GM and it had the infamous "ZEROS" in the display. Using the Gary Wingerd (a VERY nice guy) method of process of elimination I was able to narrow the problem down to board A2. Sure enough there was a burnt choke. I replaced choke L14 and also the 2 tantalums near it, C38 and C41. I then looked over the boards again and replaced a burnt cap and a few other "suspect" caps on Board A4. I then fired it up and now the display is perfect and ALL buttons function but no reception (I do get sound of course). As mentioned I did the BITE test and it came up with only 1 error, 01, which the manual says is board A7 possibly. I went over A7 and replaced 2 caps that had the brown dot on top (possible burn) but still no luck. Anyone else have this problem and possibly know if I might have another bad part somehwere and help me to replace it if so? My technical skills are fair but I am willing to try, replacing parts is no problem. Gary sent me a troubleshooting tip guide but it's a bit past my ability range, am hoping to find someone who can recommend a part or parts to replace. Thanks for all who reply.

Adam Farber
Cooper City, FL
adamf@eeco.com

758. RE: [Racal6790GM] Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 16:50:44 UTC
From: Carcia, Francis A HS
Topic: 757 Message: 758

Brown dot is where smoke will come out later.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of hamguy123
Sent: Wednesday, June 27, 2007 9:16 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Still need help with RA6790/GM, BITE error 01

Hi all, last week I posted that I had received an RA6790/GM and it had the infamous "ZEROS" in the display. Using the Gary Wingerd (a VERY nice guy) method of process of elimination I was able to narrow the problem down to board A2. Sure enough there was a burnt choke. I replaced choke L14 and also the 2 tantalums near it, C38 and C41. I then looked over the boards again and replaced a burnt cap and a few other "suspect" caps on Board A4. I then fired it up and now the display is perfect and ALL buttons function but no reception (I do get sound of course). As mentioned I did the BITE test and it came up with only 1 error, 01, which the manual says is board A7 possibly. I went over A7 and replaced 2 caps that had the brown dot on top (possible burn) but still no luck. Anyone else have this problem and possibly know if I might have another bad part somehwere and help me to replace it if so? My technical skills are fair but I am willing to try, replacing parts is no problem. Gary sent me a troubleshooting tip guide but it's a bit past my ability range, am hoping to find someone who can recommend a part or parts to replace. Thanks for all who reply.

Adam Farber
Cooper City, FL
adamf@... <mailto:adamf%40eeco.com>

759. RE: [Racal6790GM] Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 17:48:34 UTC
From: Adam Farber
Topic: 757 Message: 759

Hi, yes, I replaced the caps with the brown dot, still looking for help if anyone can. Thanks, Adam

At 12:50 PM 6/27/2007 -0400, you wrote:

>Brown dot is where smoke will come out later.
>
>
>----------
>From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
>Behalf Of hamguy123
>Sent: Wednesday, June 27, 2007 9:16 AM
>To: Racal6790GM@yahoogroups.com
>Subject: [Racal6790GM] Still need help with RA6790/GM, BITE error 01
>
>Hi all, last week I posted that I had received an RA6790/GM and it had
>the infamous "ZEROS" in the display. Using the Gary Wingerd (a VERY
>nice guy) method of process of elimination I was able to narrow the
>problem down to board A2. Sure enough there was a burnt choke. I
>replaced choke L14 and also the 2 tantalums near it, C38 and C41. I
>then looked over the boards again and replaced a burnt cap and a few
>other "suspect" caps on Board A4. I then fired it up and now the
>display is perfect and ALL buttons function but no reception (I do get
>sound of course). As mentioned I did the BITE test and it came up with
>only 1 error, 01, which the manual says is board A7 possibly. I went
>over A7 and replaced 2 caps that had the brown dot on top (possible
>burn) but still no luck. Anyone else have this problem and possibly
>know if I might have another bad part somehwere and help me to replace
>it if so? My technical skills are fair but I am willing to try,
>replacing parts is no problem. Gary sent me a troubleshooting tip
>guide but it's a bit past my ability range, am hoping to find someone
>who can recommend a part or parts to replace. Thanks for all who reply.
>
>Adam Farber
>Cooper City, FL
><mailto:adamf%40eeco.com>adamf@...
>
>

760. Re: [Racal6790GM] Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 18:15:10 UTC
From: Dan Rae
Topic: 757 Message: 760

Adam Farber wrote:

> Hi, yes, I replaced the caps with the brown dot, still looking for
> help if anyone can. Thanks, Adam

Adam, Bite error 01 just means the 1st LO synthesiser is out of lock or slow to lock up. The possible reasons for that are just about as many as there are components on the board. There is no single easy solution for you I'm afraid. You are going to have to dive in with some test gear, if you have it, or ask Gary to look at the board if you don't, which I'm sure he would be glad to do.

I'd start by looking to see if there is any LO output from the board.
What frequency?
Then DC levels on the varactor line, at either end of the range...
and so on...

The manual is just going to do the military thing of telling you to swap the board, which is not a lot of help.

Good luck,
Dan
ac6ao / g3ncr

761. Re: [Racal6790GM] Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 18:18:03 UTC
From: Adam Farber
Topic: 757 Message: 761

Hi Dan, was afraid of an answer like that, was hoping for some luck with someone with the same problem who knew what other components it might be. If no luck will send it off to Gary.

Thanks for the post.

Adam

At 11:15 AM 6/27/2007 -0700, you wrote:

>Adam Farber wrote:
>
> > Hi, yes, I replaced the caps with the brown dot, still looking for
> > help if anyone can. Thanks, Adam
>
>Adam, Bite error 01 just means the 1st LO synthesiser is out of lock or
>slow to lock up. The possible reasons for that are just about as many
>as there are components on the board. There is no single easy solution
>for you I'm afraid. You are going to have to dive in with some test
>gear, if you have it, or ask Gary to look at the board if you don't,
>which I'm sure he would be glad to do.
>
>I'd start by looking to see if there is any LO output from the board.
>What frequency?
>Then DC levels on the varactor line, at either end of the range...
>and so on...
>
>The manual is just going to do the military thing of telling you to swap
>the board, which is not a lot of help.
>
>Good luck,
>Dan
>ac6ao / g3ncr
>
>

762. RE: [Racal6790GM] Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 18:26:05 UTC
From: Carcia, Francis A HS
Topic: 757 Message: 762

could it be as simple as the radio is set up for an external reference.
I don't know how that is done in the 6790 but just a couple key strokes
in the 6830

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Dan Rae
Sent: Wednesday, June 27, 2007 2:15 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Still need help with RA6790/GM, BITE error 01

Adam Farber wrote:

> Hi, yes, I replaced the caps with the brown dot, still looking for
> help if anyone can. Thanks, Adam

Adam, Bite error 01 just means the 1st LO synthesiser is out of lock or
slow to lock up. The possible reasons for that are just about as many
as there are components on the board. There is no single easy solution
for you I'm afraid. You are going to have to dive in with some test
gear, if you have it, or ask Gary to look at the board if you don't,
which I'm sure he would be glad to do.

I'd start by looking to see if there is any LO output from the board.
What frequency?
Then DC levels on the varactor line, at either end of the range...
and so on...

The manual is just going to do the military thing of telling you to swap

the board, which is not a lot of help.

Good luck,
Dan
ac6ao / g3ncr

763. Re: [Racal6790GM] Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 18:35:20 UTC
From: Adam Farber
Topic: 757 Message: 763

Hi All, also, I just noticed that in the USB or LSB mode I can not select a filter, when I press BW1 thru BW5 they do NOT show up on the LCD but in the AM or CW mode each one shows up on the display as it should (I have all filter slots filled), anyone know what that means?

Lastly, anyone have a good working A2 board for sale or rent (PLEASE)?

Thanks,

Adam Farber

At 11:15 AM 6/27/2007 -0700, you wrote:

>Adam Farber wrote:
>
> > Hi, yes, I replaced the caps with the brown dot, still looking for
> > help if anyone can. Thanks, Adam
>
>Adam, Bite error 01 just means the 1st LO synthesiser is out of lock or
>slow to lock up. The possible reasons for that are just about as many
>as there are components on the board. There is no single easy solution
>for you I'm afraid. You are going to have to dive in with some test
>gear, if you have it, or ask Gary to look at the board if you don't,
>which I'm sure he would be glad to do.
>
>I'd start by looking to see if there is any LO output from the board.
>What frequency?
>Then DC levels on the varactor line, at either end of the range...
>and so on...
>
>The manual is just going to do the military thing of telling you to swap
>the board, which is not a lot of help.
>
>Good luck,
>Dan
>ac6ao / g3ncr
>
>

764. Re: [Racal6790GM] Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 18:45:02 UTC
From: Dan Rae
Topic: 757 Message: 764

Adam Farber wrote:

> Hi All, also, I just noticed that in the USB or LSB mode I can not
> select a filter, when I press BW1 thru BW5 they do NOT show up on the
> LCD but in the AM or CW mode each one shows up on the display as it
> should (I have all filter slots filled), anyone know what that means?

Adam, that's NORMAL. Why would you want anything other than the
sideband filter for ssb? I know some radios do allow you to do this,
but I never figured out why.

Check the Reference switch at the back as per Francis. It should be set
to Int.
dr

765. Re: [Racal6790GM] Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 18:47:42 UTC
From: Adam Farber
Topic: 757 Message: 765

Hi Dan, thanks for the answer on SSB filter selection, and the S2 switch is set to INT....Thanks,

Still seeing if anyone has an extra A2 board?

Thanks,

Adam Farber

At 11:45 AM 6/27/2007 -0700, you wrote:

>Adam Farber wrote:
>
> > Hi All, also, I just noticed that in the USB or LSB mode I can not
> > select a filter, when I press BW1 thru BW5 they do NOT show up on the
> > LCD but in the AM or CW mode each one shows up on the display as it
> > should (I have all filter slots filled), anyone know what that means?
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>Adam, that's NORMAL. Why would you want anything other than the
>sideband filter for ssb? I know some radios do allow you to do this,
>but I never figured out why.
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>Check the Reference switch at the back as per Francis. It should be set
>to Int.
>dr
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>

766. Re: [Racal6790GM] Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 18:44:45 UTC
From: Leigh Sedgwick
Topic: 757 Message: 766

The LSB and USB filters are fixed bandwidth...you cannot switch to the other
filters in USB, LSB, or ISB modes.

----- Original Message -----
From: "Adam Farber" <adamf@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, June 27, 2007 11:35 AM
Subject: Re: [Racal6790GM] Still need help with RA6790/GM, BITE error 01

> Hi All, also, I just noticed that in the USB or LSB mode I can not select
> a
> filter, when I press BW1 thru BW5 they do NOT show up on the LCD but in
> the
> AM or CW mode each one shows up on the display as it should (I have all
> filter slots filled), anyone know what that means?
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> Lastly, anyone have a good working A2 board for sale or rent (PLEASE)?
>
> Thanks,
>
> Adam Farber
>
>
> At 11:15 AM 6/27/2007 -0700, you wrote:
>
>>Adam Farber wrote:
>>
>> > Hi, yes, I replaced the caps with the brown dot, still looking for
>> > help if anyone can. Thanks, Adam
>>
>>Adam, Bite error 01 just means the 1st LO synthesiser is out of lock or
>>slow to lock up. The possible reasons for that are just about as many
>>as there are components on the board. There is no single easy solution
>>for you I'm afraid. You are going to have to dive in with some test
>>gear, if you have it, or ask Gary to look at the board if you don't,
>>which I'm sure he would be glad to do.
>>
>>I'd start by looking to see if there is any LO output from the board.
>>What frequency?
>>Then DC levels on the varactor line, at either end of the range...
>>and so on...
>>
>>The manual is just going to do the military thing of telling you to swap
>>the board, which is not a lot of help.
>>

>>Good luck,
>>Dan
>>ac6ao / g3ncr
>>
>>
>
>

767. Re: Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 21:08:15 UTC
From: Graham
Topic: 757 Message: 767

..... There aint too much on the a2 board to fail , less the mixer's been zapped ... You need to see whats comming out of the a7 board , the local oscillator board .. if you dont have any test equipment .. you shold pick up the master oscillator on a scanning rx ..rx dial freq of 10 MHz should produce a a7 out put round 50 mhz - 6 meters .should be quite loud and stable and tune with the main dial , range something like 40 to 70 MHz in 1 Hz steps

The only fault I had with my set was , the fault lamp came on now and again , caused by the local psu voltage on the a7 being set too low , causing the synth to fall out of lock , may be as simple as that ?

The other was the 5 mhz ref oscillator would not 'net' it failed just as it approached 5 MHz ..I had to replace it , since then , all's fine ... unlike the MA1723 I got from e-bay a while ago .. which was fine ...

With no test equipment listen for a carrier on 5 MHz

But to be honest, without the test jig's ,single board test looks a bit of a trip into the unknown as they all have a digital interface and the bit patterns etc dont seem to be documented ....

G..

--- In Racal6790GM@yahoogroups.com, Adam Farber <adamf@...> wrote:
>
> Hi Dan, thanks for the answer on SSB filter selection, and the S2 switch is
> set to INT....Thanks,
>
> Still seeing if anyone has an extra A2 board?
>
> Thanks,
>
> Adam Farber
>
>
> At 11:45 AM 6/27/2007 -0700, you wrote:
>
> >Adam Farber wrote:
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> >but I never figured out why.
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> >Check the Reference switch at the back as per Francis. It should be set
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768. Re: [Racal6790GM] Re: Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 22:33:41 UTC
From: Adam Farber
Topic: 757 Message: 768

OK Graham, thanks, I think I'll have to send it off to be repaired. Thanks
for the input. Adam

At 09:08 PM 6/27/2007 +0000, you wrote:

>..... There aint too much on the a2 board to fail , less the mixer's
>been zapped ... You need to see whats comming out of the a7 board ,
>the local oscillator board .. if you dont have any test equipment ..
>you shold pick up the master oscillator on a scanning rx ..rx dial
>freq of 10 MHz should produce a a7 out put round 50 mhz - 6
>meters .should be quite loud and stable and tune with the main dial ,
>range something like 40 to 70 MHz in 1 Hz steps
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>causing the synth to fall out of lock , may be as simple as that ?
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>as it approached 5 MHz ..I had to replace it , since then , all's
>fine ... unlike the MA1723 I got from e-bay a while ago .. which was
>fine ...
>
>With no test equipment listen for a carrier on 5 MHz
>
>But to be honest, without the test jig's ,single board test looks a
>bit of a trip into the unknown as they all have a digital interface
>and the bit patterns etc dont seem to be documented ....
>
>G..
>
>--- In <mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com,
>Adam Farber <adamf@...> wrote:
> >
> > Hi Dan, thanks for the answer on SSB filter selection, and the S2
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> > Thanks,
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> > >Adam Farber wrote:
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> > > > Hi All, also, I just noticed that in the USB or LSB mode I can
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> > > >
> > >
>
>

769. Re: [Racal6790GM] Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 22:35:02 UTC
From: Adam Farber
Topic: 757 Message: 769

OK, thanks, Adam

At 11:44 AM 6/27/2007 -0700, you wrote:

>The LSB and USB filters are fixed bandwidth...you cannot switch to the other
>filters in USB, LSB, or ISB modes.
>
>----- Original Message -----
>From: "Adam Farber" <<mailto:adamf%40eeco.com>adamf@...>
>To: <<mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com>
>Sent: Wednesday, June 27, 2007 11:35 AM
>Subject: Re: [Racal6790GM] Still need help with RA6790/GM, BITE error 01
>
> > Hi All, also, I just noticed that in the USB or LSB mode I can not select
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> > filter, when I press BW1 thru BW5 they do NOT show up on the LCD but in
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> > filter slots filled), anyone know what that means?
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> > Lastly, anyone have a good working A2 board for sale or rent (PLEASE)?
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> > Thanks,
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> > Adam Farber
> >
> >
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> >>Adam Farber wrote:
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> >> > Hi, yes, I replaced the caps with the brown dot, still looking for
> >> > help if anyone can. Thanks, Adam
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> >>Adam, Bite error 01 just means the 1st LO synthesiser is out of lock or
> >>slow to lock up. The possible reasons for that are just about as many
> >>as there are components on the board. There is no single easy solution
> >>for you I'm afraid. You are going to have to dive in with some test
> >>gear, if you have it, or ask Gary to look at the board if you don't,
> >>which I'm sure he would be glad to do.
> >>
> >>I'd start by looking to see if there is any LO output from the board.
> >>What frequency?
> >>Then DC levels on the varactor line, at either end of the range...
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> >>
> >>The manual is just going to do the military thing of telling you to swap
> >>the board, which is not a lot of help.
> >>
> >>Good luck,
> >>Dan
> >>ac6ao / g3ncr
> >>
> >>
> >
> >
>
>

770. Re: Still need help with RA6790/GM, BITE error 01

Yahoo group: Racal6790GM
Date: 2007-06-27 23:06:25 UTC
From: Graham
Topic: 757 Message: 770

Ok Adam,

Well , thats one of the more novel aspects of owning one of these set's ... you can actually put it in a box and send it effctivly 4th line repair ! and with the new mixer board, it will be a while before its beyond repair ..

Now all I need is somewhere to send my intermittant MA1723 ... sensible replys other than the local 'tip' please !

G ..

--- In Racal6790GM@yahoogroups.com, Adam Farber <adamf@...> wrote:
>
> OK Graham, thanks, I think I'll have to send it off to be repaired. Thanks
> for the input. Adam
>
>
> At 09:08 PM 6/27/2007 +0000, you wrote:
>
> >..... There aint too much on the a2 board to fail , less the mixer's
> >been zapped ... You need to see whats comming out of the a7 board ,
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> >you shold pick up the master oscillator on a scanning rx ..rx dial
> >freq of 10 MHz should produce a a7 out put round 50 mhz - 6
> >meters .should be quite loud and stable and tune with the main dial ,
> >range something like 40 to 70 MHz in 1 Hz steps
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> >The only fault I had with my set was , the fault lamp came on now and
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> >The other was the 5 mhz ref oscillator would not 'net' it failed just
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> >With no test equipment listen for a carrier on 5 MHz

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> >But to be honest, without the test jig's ,single board test looks a
> >bit of a trip into the unknown as they all have a digital interface
> >and the bit patterns etc dont seem to be documented ....
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> >G..
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> >--- In <mailto:Racal6790GM%
40yahoogroups.com>Racal6790GM@yahoogroups.com,
> >Adam Farber <adamf@> wrote:
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> > > >Check the Reference switch at the back as per Francis. It
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> > > >to Int.
> > > >dr

> > > >
> > > >
> > >
> >
> >
>

771. A7 problem

Yahoo group: Racal6790GM
Date: 2007-07-01 17:16:00 UTC
From: Francesco
Topic: 771 Message: 771

In my RA6790/GM Serial 907 i have a problem with A7 module.

When I use 1 hz step tuning on every step the pll is unlocked for
several milliseconds.
The frequency output from the module a7 change only every 100 hz and
the frequency value is correct.

Observing the output of the A7 module with the spectrum analyzer on
every change of frequency the oscillator sweep all the band before
returning in condition of lock.

Using the other tuning steps the problems is the same.

Any suggestions ??
Regards

IK2BIY Francesco

772. Re: [Racal6790GM] A7 problem

Yahoo group: Racal6790GM
Date: 2007-07-01 22:29:51 UTC
From: gewingerd@netzero.com
Topic: 771 Message: 772

Here are the chips that control the frequency information.
Important note on the A7 card:
A7U8 1 HZ BIT LSB
A7U9 10HZ BIT
A7U10 100HZ BIT
A7U11 1KHZ BIT
A7U12 10KHZ BIT
A7U13 100KHZ BIT

Thanks,
Gary

773. Newbie

Yahoo group: Racal6790GM
Date: 2007-07-02 08:32:13 UTC
From: Nick
Topic: 773 Message: 773

Hi,
I couldn't find an answer with the search function.

Could someone tell me what the difference between the 8449 Military software is and the 6999 Commerical software.

Is the 6999 software required for the W6GER software, or will the 8449 do?

Regards,
Nick

774. Re: [Racal6790GM] Newbie

Yahoo group: Racal6790GM
Date: 2007-07-02 15:24:49 UTC
From: gewingerd@netzero.com
Topic: 773 Message: 774

Nick,

The 8449 software is the US Military RS232 version of software for the R2174A receivers and does go below 500 KHz and does not give you all the info in remote bus.

The 9666 software is the standard non-military RS232 software for the RA6790/GM receivers that allows the receiver to start at 0 KHz and give all the info back in the remote bus.

Both software's will run the standard RS232 bus interface 8391 however if you want to run a IEEE interface other software is available.

I carry the 9666 software and many other new parts in the shop.

Thanks,
Gary

775. Re: [Racal6790GM] Newbie

Yahoo group: Racal6790GM
Date: 2007-07-02 15:34:44 UTC
From: Dan Rae
Topic: 773 Message: 775

gewingerd@... wrote:

>Nick,
>
> The 8449 software is the US Military RS232 version of software for
>the R2174A receivers and does go below 500 KHz
>
That should read: Does NOT go below 500 kHz
fwiw
dr

776. Re: [Racal6790GM] Newbie

Yahoo group: Racal6790GM
Date: 2007-07-02 18:08:56 UTC
From: gewingerd@netzero.com
Topic: 773 Message: 776

Correct 8449 does not go below 500 KHz. Sorry for the confusion.

Thanks,
Gary

777. Newbie Question

Yahoo group: Racal6790GM
Date: 2007-07-02 23:54:59 UTC
From: penguin2001au
Topic: 777 Message: 777

Greetings All:

Have just joined the group as I plan to acquire a 6790GM in the
near future, or at least I think I do.
This is an expensive receiver and the question arises, is it worth
buying one? My impression from cruising round on HF these days is that
there is not so much to listen to as there used to be. Where is the
government, utility and aviation traffic of yesteryear? Amateurs are
there as always, of course.
Maybe my present receiving setup is a bit deaf :-)
To those in the Group that,presumably, are already using 6790s
such a concern may seem heresy but I would like to have some opinions
on the matter. Better still, frequencies of interest.

Regards: John Foster.

778. RE: [Racal6790GM] Newbie Question

Yahoo group: Racal6790GM
Date: 2007-07-03 01:34:51 UTC
From: Hunter Ellington
Topic: 777 Message: 778

There is still a lot of interesting stuff out there, and the 6790 makes a joy to listen to. A bad day on HF is better than television.

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@...
<mailto:hunter.ellington@...>

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of penguin2001au
Sent: Monday, July 02, 2007 5:55 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Newbie Question

Greetings All:

Have just joined the group as I plan to acquire a 6790GM in the near future, or at least I think I do.
This is an expensive receiver and the question arises, is it worth buying one? My impression from cruising round on HF these days is that there is not so much to listen to as there used to be. Where is the government, utility and aviation traffic of yesteryear? Amateurs are there as always, of course.
Maybe my present receiving setup is a bit deaf :-)
To those in the Group that,presumably, are already using 6790s such a concern may seem heresy but I would like to have some opinions on the matter. Better still, frequencies of interest.

Regards: John Foster.

779. Re: A7 problem

Yahoo group: Racal6790GM
Date: 2007-07-02 19:02:03 UTC
From: Francesco
Topic: 771 Message: 779

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Here are the chips that control the frequency information.
> Important note on the A7 card:
> A7U8 1 HZ BIT LSB
> A7U9 10HZ BIT
> A7U10 100HZ BIT
> A7U11 1KHZ BIT
> A7U12 10KHZ BIT
> A7U13 100KHZ BIT
>
> Thanks,
> Gary
>

Thank for your answer

I have already replaced the shift register from A7U8 to A7U13 and now
the BITE work very well but the problem with the PLL is the same
(before i have problem with filters identification as described in
your A7 troubleshooting text and I have replaced all the circuits
because i thought in another IC problem).
Looking with oscilloscope the signal into adder circuit A7U15, A7U18,
A7U20, A7U21, A7U22 i have strange signal at pin 4 of A7U15 (compared
with identical circuits RA1792 A7-MK3, on RA6790 i have static signal
apparently without addiction).
In the next days i have new A7U22 circuit and i will try to substitute.

Have you other suggestions ??

Regards

IK2BIY Francesco

780. Re: [Racal6790GM] Re: A7 problem

Yahoo group: Racal6790GM
Date: 2007-07-03 09:34:37 UTC
From: gewingerd@netzero.net
Topic: 771 Message: 780

If you know the filter info then you can force the filters by;
R-2174 FORCED FILTER OPERATION
1. ENTER FORCED FILTER MODE BY PRESSING (AND HOLDING) THE LOCK KEYSWITCH , THEN MOMENTARILY PRESS THE ISB U/L KEYSWITCH. RELEASE BOTH. (THE AUX INDICATOR SHOULD ILLUMINATE ON THE AUXILIARY DISPLAY INDICATING FORCED FILTER MODE IS ACTIVE).

2. ENTER THE DESIRED FILTER DISPLAY VALUES. THE FILTER VALUES ARE ENTERED IN ASCENDING FILTER POSITION ORDER, 1-7. (NOTE THAT A MAXIMUM OF 5 SYMMETRICAL, 1 LSB, AND 1 USB FILTERS MAY BE ENTERED. FEWER MAY BE ENTERED, DEPENDING ON THE FILTER HARDWARE CONFIGURATION). BLANK FILTER SLOTS SHOULD BE ENTERED SIMPLY BY PRESSING ENTER, TO MOVE PAST THE SLOT.

A. SYMMETRICAL FILTERS: PRESS NUMERIC KEYPAD SWITCHES FOR FILTER VALUES, IN 100 Hz RESOLUTION STEPS. (FOR 400 Hz, PRESS ?4". FOR 3.2 kHz, PRESS ?3" THEN ?2"). TERMINATE EACH FILTER ENTRY WITH ENTER.

B. USB FILTER: PRESS THE USB KEYSWITCH, TERMINATE WITH ENTER.

C. LSB FILTER: PRESS THE LSB KEYSWITCH, TERMINATE WITH ENTER.

D. NULL (BLANK) FILTER SLOT: TERMINATE WITH ENTER

3. TERMINATE FORCED FILTER MODE BY PRESSING THE ISB U/L KEYSWITCH. (NOTE THAT THE AUX INDICATOR EXTINGUISHES). NOTE THAT FORCED FILTER MODE WILL AUTOMATICALLY TERMINATE WITH THE 7th PRESSING OF THE ENTER, AS THIS WILL INDICATE TO THE RECEIVER THAT ALL FILTER SLOTS HAVE BEEN DEFINED. PRESSING ISB U/L EARLIER THAN THIS WILL TERMINATE FORCED FILTER MODE, LEAVING ALL UNDEFINED SLOTS IN THEIR ORIGINAL CONFIGURATION.

Gary E. Wingerd

781. Another A7 problem solved.

Yahoo group: Racal6790GM
Date: 2007-07-04 17:54:11 UTC
From: enigma_y_2000
Topic: 781 Message: 781

Racal RA6790/GM

Symptom: Started as slightly scratchy audio, with no BITE code showing. Over a period of one week the audio got much worse, then sounding like a bad connection. When running the BITE (AM-Lock) sequence all the filters showed wrong bandwidth in the display. Finally after a couple more days, BITE code 01 (A7 board) showed.

Repair: A visual inspection on A7 revealed nothing. All other boards were also inspected and nothing wrong was seen. Next I scoped all the supply lines looking for excessive noise. All seemed OK.

A7 was removed from unit and then the main connector was reconnected so I could measure the supply voltages on the back of A7. All fell within acceptable range per the manual. Next I checked the 5.2 VDC voltage on A7 (sheet 3 of 5). This powers the ECL circuitry, and it measured around 4.6 VDC. Readjustment of the 5.2 V regulator pot (R16) cured the problem. All filters now are measured correctly and the unit performs well.

782. What software is avail for RA6970/GM

Yahoo group: Racal6790GM
Date: 2007-07-06 22:24:17 UTC
From: enigma_y_2000
Topic: 782 Message: 782

Hi group,

What software is available for the 6790/GM besides Ergo4 and the W6GER software?

Thanks,

Bob

783. Is there a replacement for ILG database

Yahoo group: Racal6790GM
Date: 2007-07-06 23:00:31 UTC
From: enigma_y_2000
Topic: 783 Message: 783

Hi,

I see that ILG no longer provides their database free of charge to hobby users. Is there anything else that will work with the W6GER software to control a RA6790?

Thanks,

Bob

784. Re : [Racal6790GM] Is there a replacement for ILG database

Yahoo group: Racal6790GM
Date: 2007-07-07 15:09:22 UTC
From: philippe gombert
Topic: 784 Message: 784

Hello,

Normally in few weeks TRX Manager can control RA6790/GM receiver.

Laurent work for add this receiver inside her software. Actually i have thi sreceveir and make somme test with this and TRX Manager.

Ths software control up to four (4) receiver or transmitter in same time.

For my ring in France i hope to use my Racal receiver for scanning and receiver and my TS440 for Transceiver.

In the futur for my ring in USA i hope to use my other Racal reciever with my Harris RF350/RT1446.

Best regards.

Philippe

----- Message d'origine ----
De : enigma_y_2000 <enigma_y_2000@...>
À : Racal6790GM@yahoogroups.com
Envoyé le : Samedi, 7 Juillet 2007, 1h00mn 31s
Objet : [Racal6790GM] Is there a replacement for ILG database

Hi,

I see that ILG no longer provides their database free of charge to
hobby users. Is there anything else that will work with the W6GER
software to control a RA6790?

Thanks,

Bob

_____
Découvrez une nouvelle façon d'obtenir des réponses à toutes vos questions !
Profitez des connaissances, des opinions et des expériences des internautes sur Yahoo! Questions/Réponses
http://fr.answers.yahoo.com

785. Question on 6790/GM-3 With Z80 Microprocessor

Yahoo group: Racal6790GM
Date: 2007-07-07 18:09:32 UTC
From: toddroberts2001@aol.com
Topic: 785 Message: 785

Does anyone know what years Racal made the 6790/GM-3 or later series with the latest A6A2 Z80 microprocessor board and single eprom chip? The one I have appears to have date code of 1990 on the Z80 chip. I imagine these were some of the last RA6790/GMs made? Does anyone know the last year Racal produced the 6790/R-2174 series?

Thanks! 73 Todd WD4NGG

********** See what's free at http://www.aol.com.

786. To sel receiver racal 6790gm (-2174/Urr)

Yahoo group: Racal6790GM
Date: 2007-07-07 21:37:31 UTC
From: add12547823
Topic: 786 Message: 786

HEllo.I sel perfect receiver RACAL 6970GM little realigned.With cable
pc controlled.Working 100%.
Contact me add 12547823@ yahoo.it

787. Re: Re : [Racal6790GM] Is there a replacement for ILG database

Yahoo group: Racal6790GM
Date: 2007-07-07 22:25:00 UTC
From: enigma_y_2000
Topic: 784 Message: 787

Philippe,

Thank you for the information. I will check TRX in a few weeks and see
if it works for me.

Have fun with your nice radios,

Bob

--- In Racal6790GM@yahoogroups.com, philippe gombert <philgievres@...>
wrote:
>
> Hello,
>
> Normally in few weeks TRX Manager can control RA6790/GM receiver.
>
> Laurent work for add this receiver inside her software. Actually i
have thi sreceveir and make somme test with this and TRX Manager.
>
> Ths software control up to four (4) receiver or transmitter in same
time.
>
> For my ring in France i hope to use my Racal receiver for scanning
and receiver and my TS440 for Transceiver.
>
> In the futur for my ring in USA i hope to use my other Racal
reciever with my Harris RF350/RT1446.
>
> Best regards.
>
> Philippe
>
>
> ----- Message d'origine ----
> De : enigma_y_2000 <enigma_y_2000@...>
> À : Racal6790GM@yahoogroups.com
> Envoyé le : Samedi, 7 Juillet 2007, 1h00mn 31s
> Objet : [Racal6790GM] Is there a replacement for ILG database
>
> Hi,
>
> I see that ILG no longer provides their database free of charge to
> hobby users. Is there anything else that will work with the W6GER
> software to control a RA6790?
>
> Thanks,

>
> Bob
>
>
>
>
>
>
>
>
>
>

> Découvrez une nouvelle façon d'obtenir des réponses à toutes vos
questions !
> Profitez des connaissances, des opinions et des expériences des
internautes sur Yahoo! Questions/Réponses
> http://fr.answers.yahoo.com
>

788. Need main LCD display for an RA6790

Yahoo group: Racal6790GM
Date: 2007-07-08 17:26:30 UTC
From: hamguy123
Topic: 788 Message: 788

Hi, all, I am in need of the main LCD display for an RA6790, part number is 07898, must be working as it should. Let me know if you have one and price please.

Thanks,

Adam Farber
Cooper City, FL
adamf@...

789. Re: Newbie Question

Yahoo group: Racal6790GM
Date: 2007-07-11 15:23:49 UTC
From: Graham
Topic: 777 Message: 789

Is it worth buying one ... that's the $64,000 question !

It all depends on what you want and what you expect ... It basically dose what it says on the label ... and nothing ealse ... if you get a 'beep' in the can's .. then you can rest assured , it came down you ae feeder and wasent something the set made up for you ..

If you want the excitement of not Knowing, then its prehaps not the set to buy .. but if you 'have to' understand what's comming in .. you wont go far wrong .. as we say :-

http://www.usingenglish.com/reference/idioms/horses+for+courses.html

G ..

--- In Racal6790GM@yahoogroups.com, "Hunter Ellington" <hunter.ellington@...> wrote:
>
> There is still a lot of interesting stuff out there, and the 6790 makes
> a joy to listen to. A bad day on HF is better than television.
>
>
> R. Hunter Ellington, Esq.
> Shareholder
>
> Gorrell Giles PC
> 1331 Seventeenth Street, Suite 1000
> Denver, Colorado 80202
> (303) 996-6585 Direct
> (303) 996-2680 Fax
> hunter.ellington@...
> <mailto:hunter.ellington@...>
>
>
>
> _____
>
> From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
> On Behalf Of penguin2001au
> Sent: Monday, July 02, 2007 5:55 PM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Newbie Question
>
>

>
> Greetings All:
>
> Have just joined the group as I plan to acquire a 6790GM in the
> near future, or at least I think I do.
> This is an expensive receiver and the question arises, is it worth
> buying one? My impression from cruising round on HF these days is
that
> there is not so much to listen to as there used to be. Where is the
> government, utility and aviation traffic of yesteryear? Amateurs are
> there as always, of course.
> Maybe my present receiving setup is a bit deaf :-)
> To those in the Group that,presumably, are already using 6790s
> such a concern may seem heresy but I would like to have some
opinions
> on the matter. Better still, frequencies of interest.
>
> Regards: John Foster.
>

790. Manual for the RA6793?

Yahoo group: Racal6790GM
Date: 2007-07-11 19:48:10 UTC
From: Marco IK1ODO
Topic: 777 Message: 790

Hi all,

who has a copy (paper or PDF) of the operating manual for the Racal RA6793A ?

All expenses reimboursed, of course. I can't believe that it is not
around somewhere... :-)

73 - Marco IK1ODO / AI4YF

791. Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2007-07-14 17:56:18 UTC
From: talkophonez
Topic: 791 Message: 791

Bama has a copy you can down load.

Regards
Larry

792. RA 6793A

Yahoo group: Racal6790GM
Date: 2007-07-14 17:57:44 UTC
From: talkophonez
Topic: 792 Message: 792

I have a copy of the manual. I can check and see how much it would cost to copy.

Regards
Larry

793. ILG database no longer. Any substitute.

Yahoo group: Racal6790GM
Date: 2007-07-24 22:41:43 UTC
From: enigma_y_2000
Topic: 793 Message: 793

Hi,
>
> I see that ILG no longer provides their database free of charge to
> hobby users. Is there another frequency database that will work with
the W6GER software to control a RA6790?
>
> Thanks,
>
> Bob

794. Fault Message

Yahoo group: Racal6790GM
Date: 2007-07-29 20:21:49 UTC
From: Hunter Ellington
Topic: 794 Message: 794

One and all,

I need your input and help. I have a RA6790/GM that has started to give me trouble. When it powers up, I get the following message: IP 101- IL. I can get the receiver into receive mode, but in AM and CW can no longer access filters BW3-BW5. Any thoughts?

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@gorrellgiles.com
<mailto:hunter.ellington@...>

795. Re: [Racal6790GM] Fault Message

Yahoo group: Racal6790GM
Date: 2007-07-30 16:59:38 UTC
From: gewingerd@netzero.com
Topic: 794 Message: 795
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

796. Fault Message

Yahoo group: Racal6790GM
Date: 2007-07-30 15:49:14 UTC
From: Hunter Ellington
Topic: 794 Message: 796

One and all,

I need your input and help. I have a RA6790/GM that has started to give me trouble. When it powers up, I get the following message: IP 101- IL. I can get the receiver into receive mode, but in AM and CW can no longer access filters BW3-BW5. Any thoughts?

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@gorrellgiles.com
<mailto:hunter.ellington@...>

797. RE: [Racal6790GM] Fault Message

Yahoo group: Racal6790GM
Date: 2007-07-30 17:40:58 UTC
From: Hunter Ellington
Topic: 794 Message: 797

Thank you very much.

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@...
<mailto:hunter.ellington@...>

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of gewingerd@...
Sent: Monday, July 30, 2007 11:00 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Fault Message

The A6A2 card is not getting the correct voltages, I suspect you have
a bad cap on one of the cards. You need to check all the voltages.
I have attached the troubleshooting info.

Thanks,
Gary E. Wingerd

798. 6793A

Yahoo group: Racal6790GM
Date: 2007-07-31 23:06:32 UTC
From: talkophonez
Topic: 798 Message: 798

Someone on this forum wanted a copy of the 6793A. I paid $60 to have a copy made on a CD. For some reason I have never been paid and he can't answer my emails.

799. 6793A Manual

Yahoo group: Racal6790GM
Date: 2007-08-01 19:55:02 UTC
From: talkophonez
Topic: 799 Message: 799

I guess I jumped the gun. The person is sending me the money for the manual. I didn't realize he was out of town on business and was involved with family. I hope he excepts my apology and the Racal6790/GM group.

Regards
Larry Strong

800. Need display for RA6790

Yahoo group: Racal6790GM
Date: 2007-08-11 21:58:34 UTC
From: hamguy123
Topic: 800 Message: 800

Hi all, I am in need of the frequency display for the RA6790. Can use
used or new as long as it's perfect. Please let me know if you have one.

Thanks,

Adam Farber
Cooper City, FL
adamf@...

801. RE: [Racal6790GM] Need display for RA6790

Yahoo group: Racal6790GM
Date: 2007-08-12 08:42:53 UTC
From: George Georgevits
Topic: 800 Message: 801

Try Gary Wingerd at gewingerd@...

Regards,
George Georgevits

VK2KGG
-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]On
Behalf Of hamguy123
Sent: Sunday, 12 August 2007 7:59 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Need display for RA6790

Hi all, I am in need of the frequency display for the RA6790. Can use
used or new as long as it's perfect. Please let me know if you have one.

Thanks,

Adam Farber
Cooper City, FL
adamf@...

802. RE: [Racal6790GM] Need display for RA6790

Yahoo group: Racal6790GM
Date: 2007-08-12 09:02:53 UTC
From: Adam Farber
Topic: 800 Message: 802

Hi George, thanks, actually Gary is repairing the radio right now but does not have this particular display.

Thanks,

Adam Farber

At 06:42 PM 8/12/2007 +1000, you wrote:

>Try Gary Wingerd at <mailto:gewingerd@...>gewingerd@...
>
>
>Regards,
>George Georgevits
>
>VK2KGG
>-----Original Message-----
>From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]On
>Behalf Of hamguy123
>Sent: Sunday, 12 August 2007 7:59 AM
>To: Racal6790GM@yahoogroups.com
>Subject: [Racal6790GM] Need display for RA6790
>
>>Hi all, I am in need of the frequency display for the RA6790. Can use
>>used or new as long as it's perfect. Please let me know if you have one.
>>
>>Thanks,
>>
>>Adam Farber
>>Cooper City, FL
>><mailto:adamf%40eeco.com>adamf@...
>

803. RE: [Racal6790GM] Need display for RA6790

Yahoo group: Racal6790GM
Date: 2007-08-12 18:10:47 UTC
From: Ed Tanton
Topic: 800 Message: 803

So Adam. if you don't get a display, what then? (Aside from the obvious purchase of a dead/whatever 'parts radio' ?)

Ed Tanton

website: http://www.n4xy.com <http://www.n4xy.com/>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

"Right is right, even if everyone is
against it; and wrong is wrong, even
if everyone is for it."

William Penn

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Adam Farber
Sent: Sunday, August 12, 2007 5:03 AM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] Need display for RA6790

Hi George, thanks, actually Gary is repairing the radio right now but does not have this particular display.

Thanks,

Adam Farber
///snip

804. RE: [Racal6790GM] Need display for RA6790

Yahoo group: Racal6790GM
Date: 2007-08-12 22:07:43 UTC
From: Adam Farber
Topic: 800 Message: 804

Hi Ed, the display in it is "OK" and readable, just wanted it to look
great. Thanks, Adam

At 02:10 PM 8/12/2007 -0400, you wrote:

>So Adam& if you don't get a display, what then? (Aside from the obvious
>purchase of a dead/whatever 'parts radio' ?)
>
>
>
>Ed Tanton
>
>website: <http://www.n4xy.com/>http://www.n4xy.com
>
>All emails <IN> & <OUT> checked by
>Norton AntiVirus with AutoProtect
>
>--
>"Right is right, even if everyone is
>against it; and wrong is wrong, even
>if everyone is for it."
>
>William Penn
>--
>
>
>
>From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
>Behalf Of Adam Farber
>Sent: Sunday, August 12, 2007 5:03 AM
>To: Racal6790GM@yahoogroups.com
>Subject: RE: [Racal6790GM] Need display for RA6790
>
>
>
>Hi George, thanks, actually Gary is repairing the radio right now but does
>not have this particular display.
>
>Thanks,
>
>Adam Farber
>///snip
>

805. Anzac converted receivers

Yahoo group: Racal6790GM
Date: 2007-08-16 21:19:25 UTC
From: Mil Radman
Topic: 805 Message: 805

I've seen several of the RA6790s equipped with Anzac
conversions go for sale over the last year or so and
would like to know a little more about them.
What are these conversions for mainly and what
components are they adding? What are the added
benefits of doing so?
Were they specialized receivers and for what use?

Thanks,
John

_____
Need a vacation? Get great deals
to amazing places on Yahoo! Travel.
http://travel.yahoo.com/

806. Re: [Racal6790GM] Anzac converted receivers

Yahoo group: Racal6790GM
Date: 2007-08-16 22:01:35 UTC
From: Dan Rae
Topic: 805 Message: 806

Mil Radman wrote:

>I've seen several of the RA6790s equipped with Anzac
>conversions go for sale over the last year or so and
>would like to know a little more about them.
>

You are not the only one.

The "Anzac Conversion" title is a fictional invention of a certain well known ebay buyer and reseller. This particular one he bought about a month back for I think around $600 under his other identity. It has already reached more than that with the change of identity and fanciful description. There are some Anzac modules in this version though. More correctly referred to as the R2174B it seems to have been a version made either for the US Navy or the USAF depending on who you believe. What is certain is that THERE IS NO MANUAL AVAILABLE FOR THESE. Several people have tried over the years to find one with no luck.

So anyone who spends money on these must be ready to take a chance! It is certainly not an improvement on the "normal" 2174 or 2174A versions.

Perhaps someone who owns one will have more to add, but to me this is truly a case of buyer beware.

73
Dan
ac6ao / g3ncr

807. Re: [Racal6790GM] Anzac converted receivers

Yahoo group: Racal6790GM
Date: 2007-08-17 09:35:06 UTC
From: gewingerd@netzero.com
Topic: 805 Message: 807

John,

The receiver on ebay has a mod not done by RACAL! It is some type of DF receiver because of all the LO coming out the rear of the receiver and it has only a 3.24 KHz filter installed. the 455 KHz IF is split to the 3.24 KHz filter and the long filter mounted on top of the A4 card.

Anzac manufactured, splitters, couplers, combiners,amplifiers and a ton of other RF and microwave parts.

The receiver on EBAY is a pig in a poke. The receiver only has one racal filter installed, 3.24 KHz and has all of the lo outputs to the rear of the receiver. The 3.24 kHz is hardwired into the receiver so you only have 1 bandwidth! The first clue is when RACAL did a mod like this they would mark all the cables, dress them in some kind of order and not hand draw on the covers. The receiver was done by some other agency, the guy that got it probably turned it on and it did not due what he expected so he put it right back onto EBAY with a huge price tag, he did not even change the pictures! He paid $600 bucks for it and did not even keep it 2 days before he put it right back on ebay as ANZAC RACAL HF RECEIVER, what a joke!

I have contacted the seller and he emailed me the same pictures as what were on ebay. I as him had he run the BITE and he assured me that the BYTE runs perfectly, so I told him how to run the BITE test with the LOCK and AM buttons. So one may never know if he has run the BITE or the magical BYTE test (yep the lights are on, I guess it passes BYTE).

Bottom line is the receiver is great for parts and I can't wait to get it in the shop from the poor sole that gets it just so I can rebuild it for him. I can undue what has been done and give some filters to boot.

Thanks,
Gary

808. RE: [Racal6790GM] Anzac converted receivers

Yahoo group: Racal6790GM
Date: 2007-08-17 12:10:01 UTC
From: Carcia, Francis A HS
Topic: 805 Message: 808

Gary,
I would be interested in some of those anzac modules if you ever do any conversions. As you know the same amps were used in the 6830 DF but different packages.
Yup a DF radio useless to us. frank

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Mil Radman
Sent: Thursday, August 16, 2007 5:19 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Anzac converted receivers

I've seen several of the RA6790s equipped with Anzac conversions go for sale over the last year or so and would like to know a little more about them.
What are these conversions for mainly and what components are they adding? What are the added benefits of doing so?
Were they specialized receivers and for what use?

Thanks,
John

Need a vacation? Get great deals
to amazing places on Yahoo! Travel.
http://travel.yahoo.com/ <http://travel.yahoo.com/>

809. Re: Need display for RA6790

Yahoo group: Racal6790GM
Date: 2007-08-13 18:25:18 UTC
From: Graham
Topic: 800 Message: 809

The serial data link is the final solution ;-(....

G ..

--- In Racal6790GM@yahoogroups.com, Adam Farber <adamf@...> wrote:
>
> Hi Ed, the display in it is "OK" and readable, just wanted it to
look
> great. Thanks, Adam
>
>
>
>
> At 02:10 PM 8/12/2007 -0400, you wrote:
>
> >So Adam& if you don't get a display, what then? (Aside from the
obvious
> >purchase of a dead/whatever 'parts radio' ?)
> >
> >
> >
> >Ed Tanton
> >
> >website: <http://www.n4xy.com/>http://www.n4xy.com
> >
> >All emails <IN> & <OUT> checked by
> >Norton AntiVirus with AutoProtect
> >
> >--
> >"Right is right, even if everyone is
> >against it; and wrong is wrong, even
> >if everyone is for it."
> >
> >William Penn
> >--
> >
> >
> >
> >From: Racal6790GM@yahoogroups.com
[mailto:Racal6790GM@yahoogroups.com] On
> >Behalf Of Adam Farber
> >Sent: Sunday, August 12, 2007 5:03 AM
> >To: Racal6790GM@yahoogroups.com
> >Subject: RE: [Racal6790GM] Need display for RA6790
> >

> >
> >
> >Hi George, thanks, actually Gary is repairing the radio right now
but does
> >not have this particular display.
> >
> >Thanks,
> >
> >Adam Farber
> >///snip
> >
>

810. Preamplifier Question

Yahoo group: Racal6790GM
Date: 2007-08-27 02:40:52 UTC
From: Mil Radman
Topic: 810 Message: 810

Any suggestions for adding a preamplifier to a RA6790?
Is anyone currently using a preamp and at what specs,
model, etc.?

_____
Be a better Heartthrob. Get better relationship answers from someone who knows. Yahoo!
Answers - Check it out.
http://answers.yahoo.com/dir/?link=list&sid=396545433

811. Re: [Racal6790GM] Preamplifier Question

Yahoo group: Racal6790GM
Date: 2007-08-27 03:05:08 UTC
From: gewingerd@netzero.com
Topic: 810 Message: 811

The Ramsey SA7 - Broadband Preamp Kit works very well in the receiver. You can get all the spec from Ramsey Electronics.
www.ramseyelectronics.com/site/default.asp?search=sa7&page=search

Thanks,
Gary

812. MFJ 1026 Noise cancelling filter , used with RA 6790-GM

Yahoo group: Racal6790GM
Date: 2007-09-05 11:13:09 UTC
From: dario.chim
Topic: 812 Message: 812

Has somebody experience on this MFJ nise cancelling filter used
together RACAL RA 6790-GM receiver ?

Regards
Dario

813. loosing the word 'short' in the info panel when selecting , short agc,

Yahoo group: Racal6790GM
Date: 2007-09-05 12:59:35 UTC
From: Graham
Topic: 813 Message: 813

loosing the word 'short' when selecting , short agc,

The short hang agc is selecting, but the readout, is staring to loose
the word 'short' , the whole word is missing , sometimes, definate . on
or off , no flickering

not a show stopper , but is this something that could be fixed or is
there a possibility of doing more damage 'trying' ?

are the lcd's available ?

Tnx

Graham ..

814. Re: [Racal6790GM] loosing the word 'short' in the info panel when se lecting , short agc,

Yahoo group: Racal6790GM
Date: 2007-09-05 18:49:48 UTC
From: gewingerd@netzero.com
Topic: 814 Message: 814

Graham,

I have new Mode Displays in the shop they are $55.00 each plus $8.00 shipping and handling. Could also be the drivers to the display.
the displays plug in and they are not that hard to change as long as you a 1" wooden handled paint brush. You use the brush to remove the display.

PayPal is gewingerd@... I also accept checks and money orders to:
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733

Thanks,
Gary

815. Re: loosing the word 'short' in the info panel when se lecting , short agc,

Yahoo group: Racal6790GM
Date: 2007-09-05 23:28:41 UTC
From: Graham
Topic: 814 Message: 815

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...>
wrote:
>
> Graham,
>
> I have new Mode Displays in the shop they are $55.00 each plus
$8.00 shipping and handling. Could also be the drivers to the display.
> the displays plug in and they are not that hard to change as long
as you a 1" wooden handled paint brush. You use the brush to remove
the display.
>
> PayPal is gewingerd@... I also accept checks and money orders to:
> Gary E. Wingerd
> 9107 Jordan Rd.
> Fairplay, MD 21733
>
> Thanks,
> Gary
>

Ok Gary,

Looks to be when it warms up , scopes in bits at the moment , ill
have a look at the driver etc once its back on line .. need a 'Y'
channel input bnc socket for a tektronix 2445 , the middles come
loose ... never seen such a performance to change a socket !

taking a while to visulise the brush .. which end do you use ...
assume the brush end to spread the load ?

Tnx

Graham ..

816. Bad LCD?

Yahoo group: Racal6790GM
Date: 2007-09-06 04:25:50 UTC
From: Ron Ward
Topic: 816 Message: 816

Hi:

How do you know when the LCD is bad?

What are the symptoms of LCD failure?

Thanks,

Ron

817. Re: [Racal6790GM] Re: loosing the word 'short' in the info panel whe n se lecting , short agc,

Yahoo group: Racal6790GM
Date: 2007-09-06 09:07:38 UTC
From: gewingerd@netzero.com
Topic: 817 Message: 817

I use the wooden end to get under the display and work it up a little at a time that way they don't break in half.

Thanks,
Gary

818. Re: [Racal6790GM] Bad LCD?

Yahoo group: Racal6790GM
Date: 2007-09-06 08:59:20 UTC
From: gewingerd@netzero.com
Topic: 816 Message: 818

Ron,

The LCD can be bad if segments are missing, word do not come on when you tell it to USB where the U is missing. the display can also discolor, fade, blur and mildew can damage them also.

Thanks,
Gary

819. Word "short"

Yahoo group: Racal6790GM
Date: 2007-09-06 18:05:26 UTC
From: bigmacinplano
Topic: 819 Message: 819

Having seen many of the ICs 4054 go bad I would first vote for IC U39
check pin 5.. U39 is the read out for AGC timing.
Richard K5WOR

820. Re: Word "short"

Yahoo group: Racal6790GM
Date: 2007-09-07 13:28:00 UTC
From: Graham
Topic: 819 Message: 820

--- In Racal6790GM@yahoogroups.com, "bigmacinplano" <K5wor@...> wrote:
>
> Having seen many of the ICs 4054 go bad I would first vote for IC U39
> check pin 5.. U39 is the read out for AGC timing.
> Richard K5WOR
>

Ok ,Thanks for the info , will check it out when test equipment is sorted .. works fine when its cold , fails when its warm , at least the set's still working

Tnx - G ..

821. RA6790/GM Filter Slot One Offset

Yahoo group: Racal6790GM
Date: 2007-09-10 20:55:51 UTC
From: haudidoody
Topic: 821 Message: 821

If one were to sub a symmetrical filter into slot one instead of the stock 3.4KC filter would
the BITE test automatically set the frequency offset as needed for optimum filter operation or does the BITE test always assign the same offset no matter what filter bandwidth is in place in slot one? If it only assigns a fixed offset was there ever a firmware burn that allowed for BITE measured bandwidth setting of the offset?

One could simply buy filters and use them in other slots and set the offset manually with the BFO in CW when listening USB/LSB however the frequency display would then display the operating frequency incorrectly.

Thank you

822. Re: [Racal6790GM] RA6790/GM Filter Slot One Offset

Yahoo group: Racal6790GM
Date: 2007-09-11 09:12:13 UTC
From: gewingerd@netzero.com
Topic: 821 Message: 822

If you only have 5 filters and none of them are side band filters then the filter in slot 1 is the USB and LSB filter when in USB or LSB so therefore it is always the 3.24 KHZ filter. In CW mode you can select any of the 5 standard band widths with the buttons on the front panel.

Now as to what the BITE does with the filters in the receiver. The receiver is set to 0 KHz and the BFO is swept 5 KHz and this becomes the filter displayed band width depending how the A4 card is aligned. The standard receiver will display a 6.8 KHz filter as 6 to 7.6 KHz as a rough standard. The BITE in no way changes the band width of the filters, it only displays and assigned them to a button on the front panel and that is all that it does. It does tell you that you may have too many filters installed or bad filters installed, this is due to audio detected level being to low when the filter is swept, you can watch the audio and see how it is done. If the receiver shows bad filters you can install them 1 at a time and run BITE to double check the filter in question.

Thanks,
Gary

823. Re: RA6790/GM Filter Slot One Offset

Yahoo group: Racal6790GM
Date: 2007-09-11 14:20:26 UTC
From: haudidoody
Topic: 821 Message: 823

I am still wondering what the receiver does to the filter one offset on LSB/USB when an after-market 2KC symmetrical filter is installed in slot one. Does the receiver offset 1KC from either side of 455 on LSB/USB as part of the BITE inventory scan or does it always think there is a 3.24KC filter installed in slot one if it sees a symmetrical filter there? In
other words, will the receiver always provide the same LSB/USB offset no matter what symmetrical filter is installed in slot one? If it is always the same, was there ever firmware
available that allowed one to fix a different USB/LSB offset as needed for different slot one
filter bandwidths?

Thanks Gary

Bill

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> If you only have 5 filters and none of them are side band filters then the filter in slot 1 is
the USB and LSB filter when in USB or LSB so therefore it is always the 3.24 KHZ filter. In CW mode you can select any of the 5 standard band widths with the buttons on the front panel.
>
> Now as to what the BITE does with the filters in the receiver. The receiver is set to 0 KHz
and the BFO is swept 5 KHz and this becomes the filter displayed band width depending how the A4 card is aligned. The standard receiver will display a 6.8 KHz filter as 6 to 7.6 KHz as a rough standard. The BITE in no way changes the band width of the filters, it only displays and assigned them to a button on the front panel and that is all that it does. It does tell you that you may have too many filters installed or bad filters installed, this is
due to audio detected level being to low when the filter is swept, you can watch the audio and see how it is done. If the receiver shows bad filters you can install them 1 at a time and run BITE to double check the filter in question.
>
> Thanks,
> Gary
>

824. Re: [Racal6790GM] RA6790/GM Filter Slot One Offset

Yahoo group: Racal6790GM
Date: 2007-09-11 14:38:57 UTC
From: toddroberts2001@aol.com
Topic: 821 Message: 824

In a message dated 9/10/2007 5:00:33 PM Eastern Standard Time,
haudidoody@... writes:
If one were to sub a symmetrical filter into slot one instead of the stock
3.4KC filter would
the BITE test automatically set the frequency offset as needed for optimum
filter operation
or does the BITE test always assign the same offset no matter what filter
bandwidth is in
place in slot one? If it only assigns a fixed offset was there ever a
firmware burn that
allowed for BITE measured bandwidth setting of the offset?

The carrier offset for either LSB or USB is fixed in the 6790 firmware. I
believe it is around 1700Hz offset. So if you plug in a symmetrical filter in
slot one that is too narrow, like less than 2KHz BW, the audio will sound a bit
too shrill and high pitched in LSB or USB mode. Of course the way around that
is to use the radio in CW mode and manually offset the BFO freq to around 1KHz
+ or - to hear SSB audio with a narrow filter. I find using 1KHz offset is
much easier to mentally add or subtract to the frequency you are listening to.
73 Todd WD4NGG

********** See what's new at http://www.aol.com

825. ILG Frequency Database Announcement

Yahoo group: Racal6790GM
Date: 2007-09-18 01:28:17 UTC
From: Steven Brant
Topic: 825 Message: 825

To all users of the ILG Frequency Database:

As all of you know, A full-featured radio control program allows for scanning
and a host of other functions and, in particular, integration of shortwave databases in real-time, like a "TV-Guide" type capability.

This is particularly helpful in locating all transmissions on all frequencies of
a particular broadcaster, at any given time.

The most widely used free shortwave database was provided by a German company at
ILGRadio. As of late 2006 they suspended the public broadcast database project
and it is uncertain if they are going to resume it.

Since I and several friends of mine are Racal 6790/GM users, we have used the
ILG Database for sometime to help control our receivers.

With the ILG project now closed to the public, we figured it was time to re-establish a public database that uses the same format as the ILG database.

Myself and others jumped into the project and have created a web accessable
ILG compatable database and have made it available to the public for free.

We have also made a few interesting updates.

First of all, if one signs up for the automatic distribution (again free) you
have now the ability to make enteries on your own findings for others to share.
Also you have voting rights on the frequencies logged in the database. That
means, it takes five votes to remove a listing from the logging database.

This is a user created and user controlled ILG type database. You control it,
you make it grow and keep it updated, and you get to use it for free for doing
so. The members then can remove bogus or invalid listings by voting on the listing.

The database is also made available to the public even if you do not sign up,
however, you will not have voting or entry rights and most importantly you will
not be able to receive the automated distribution.

Yes, thats right, through a special arrangement between us and Docuchannel.net
we have provided a free automated distribution of the database as it is updated
and is then sent directly to your PC for your software to read and use.

To get more information or to sign up go to our website

http://www.ioc.com and select the Ham database.

From there you can see the database or you can sign up. When you sign up, you will also automatically be given an account on DocuChannel.net and your user login information will be emailed to you. NO CHARGES and nothing to purchase.

Then all you need do is sign in to Docuchannel.net and run the receiver software. Nothing to install, nothing to purchase, just enjoy the new discoveries as others log them.

I hope you will use the system that we developed and that you find it usefull as
we have.

Good listening!!

Steve Brant K8VII
Owner ioc.com
sbrant@...

826. Re: Word "short"

Yahoo group: Racal6790GM
Date: 2007-09-16 12:18:40 UTC
From: Graham
Topic: 819 Message: 826

```
--- In Racal6790GM@yahoogroups.com, "Graham" <g0nbd@...> wrote:
>
> --- In Racal6790GM@yahoogroups.com, "bigmacinplano" <K5wor@> wrote:
> >
> > Having seen many of the ICs 4054 go bad I would first vote for IC
U39
> > check pin 5.. U39 is the read out for AGC timing.
> > Richard K5WOR
> >
>
> Ok ,Thanks for the info , will check it out when test equipment is
> sorted .. works fine when its cold , fails when its warm , at least
the
> set's still working
>
> Tnx - G ..
>

After using the RX constantly, for a week, part of 500 Khz
experiments, the 'short flag' is now working 100% .. bad connections
again, had a similar problem with the back lights , where very dim ,
then one day everything was normal ..looks like its a use it or loose
it situation !

Ive printed the replys and put them with the handbook's

Tnx - Graham ..
```

827. 6790 acting funny

Yahoo group: Racal6790GM
Date: 2007-09-18 01:54:00 UTC
From: tony dinkel
Topic: 825 Message: 827

For the last several weeks, my 6790GM has been losing its displays in various ways. It can usually be brought back to life by running BITE. This afternoon I turned it on and it gave me a fault light and would not run BITE. I started following the procedure starting at 5.4.1 in the manual and suddenly it started to work after running BITE successfully. No error codes are ever displayed, just an H in the frequency display.

Any ideas before I rip the cover off?

Thanks,

td
wb6mie

828. Re: [Racal6790GM] 6790 acting funny

Yahoo group: Racal6790GM
Date: 2007-09-18 09:04:53 UTC
From: gewingerd@netzero.com
Topic: 825 Message: 828

Tony,

You need to check the power supply outputs and see if one of them is loaded down and if so you have a bad cap on one of the A2, A3, A4, A7 or A8 cards.

Thanks,
Gary

829. RE: [Racal6790GM] 6790 acting funny

Yahoo group: Racal6790GM
Date: 2007-09-18 13:45:47 UTC
From: tony dinkel
Topic: 825 Message: 829

OK, Gary thanks. It seem to recall I have heard that answer before on here guess I should have read the archives first. I'll get the cover off and try to get it on the bench at work. Come to think of it, I have noticed it humming through the speaker a little more than usual. Maybe I should check the power supply first?

Still the best receiver I have ever owned. Maybe someday I will build my master downconverter panel so I can use it on VHF, UHF and microwave. I really need to design a squelch circuit for it in AM and FM mode though.

thanks,

td
wb6mie

----------> To: Racal6790GM@yahoogroups.com> From: gewingerd@...> Date: Tue, 18 Sep 2007 09:04:53 +0000> Subject: Re: [Racal6790GM] 6790 acting funny>> Tony,>> You need to check the power supply outputs and see if one of them is loaded down and if so you have a bad cap on one of the A2, A3, A4, A7 or A8 cards.>> Thanks,> Gary>>>>> Yahoo! Groups Links>> To visit your group on the web, go to:> http://groups.yahoo.com/group/Racal6790GM/>> Your email settings:> Individual Email | Traditional>> To change settings online go to:> http://groups.yahoo.com/group/Racal6790GM/join> (Yahoo! ID required)>> To change settings via email:> mailto:Racal6790GM-digest@yahoogroups.com> mailto:Racal6790GM-fullfeatured@yahoogroups.com>> To unsubscribe from this group, send an email to:> Racal6790GM-unsubscribe@...m>> Your use of Yahoo! Groups is subject to:> http://docs.yahoo.com/info/terms/>

830. A6A2 Battery daughter boards

Yahoo group: Racal6790GM
Date: 2007-10-23 19:07:07 UTC
From: Dan Rae
Topic: 830 Message: 830

Item number 300161363206 on eBay UK is a lot of two daughter boards used by Racal to adapt the newer and cheaper and more readily available Varta NiMH batteries to the footprint of the old and now hard to find and expensive black ones. These were fitted to a lot of the RA1792 cpu boards, and will work fine on the similar 6790/GM ones. The batteries themselves on these however may well be old Nicads and not worth keeping. In any case I would only ever put NiMH batteries in a radio now; they are pretty much leak proof.

Usual disclaimer, I have no connection with the ebay seller, other than having just bought some and been happy with them.

Dan
ac6ao / g3ncr

831. WTB: 6790GM

Yahoo group: Racal6790GM
Date: 2007-10-25 03:17:46 UTC
From: Chuck
Topic: 831 Message: 831

Greetings,
I'm looking to purchase a 6790GM with the preamp.
Looking for a fully functional unit with "no issues".
Thanks.

Chuck.....wa2onk

832. P4.OLOLOL display

Yahoo group: Racal6790GM
Date: 2007-10-26 17:23:12 UTC
From: n2msqrp
Topic: 832 Message: 832

Greetings,

I have an RA6790. Occasionally, when powering up it, seems to go through the self test cycle and fails with strange readouts notably P4.OLOLOL

Power cycling and running the self test usually clears the problem.

I think it is an intermittent connection. I've replaced the 2.4v Nicad so I don't believe it is the battery in the backup circuit.

Would anyone know if P4.OLOLOL is a valid error readout and if so, that does it indicate?

Thanks,

Mike N2MS

833. Re: [Racal6790GM] P4.OLOLOL display

Yahoo group: Racal6790GM
Date: 2007-10-26 18:27:48 UTC
From: gewingerd@netzero.com
Topic: 832 Message: 833

Mike,

It is not a valid error code, the codes are always 2 digits only. Sounds like a A6A2 RAM or you are are getting improper voltages from the power supply. If you can run BITE after the unit is on for 20 minutes and the BITE comes back good then the problem could be on the power supply or the A6A2 card still.
Any problem from the power supply like the +/-15 volts having high ripple will cause the same problem, also a shorted cap that causes one of the voltages to be low will also cause the same thing.

Thanks,
Gary

834. R-2174B unsual configuration. How can I install A5 option

Yahoo group: Racal6790GM
Date: 2007-11-05 15:07:41 UTC
From: away7388
Topic: 834 Message: 834

Hi,

I bought R-2174B(P)/URR recently.

1. It tunes down to 1kHz. Below 1kHz the frequency display flashes.
tune rate : 1Hz / 30Hz / 100Hz
installed 7 filters including LSB/ISB & USB/ISB filters

2. On the rear panel there are additional connectors:

J8 VLF Ant In (N connector)
J9 3rd IF out (BNC)
J10 AM Out (BNC)
J11 FM Out (BNC)

3. Inside there are several additional assemblies:

A14 (23386 4100361-501 IF CONVERTER CCA ASSY)
A15 (23388 4100355-501 AM/FM DEMODULATOR CCA ASSY)
A24 VLF converter
A23 & A25 - enclosed in small boxes.

This configuration seems a little bit different from usual 6790/GM.

The BITE:
stop at code 15.
at this step, display code 11 if I press & release CW button during
press LOCK button.

Receiver seems to work even there is error during BITE.

There is no room to install A5 ISB option board which has deliverd
with R-2174B.
How can I install A5 board? Should I remove A14 & A15 to install A5?

Thanks
David

835. Re: [Racal6790GM] R-2174B unsual configuration. How can I install A5 option

Yahoo group: Racal6790GM
Date: 2007-11-05 20:22:50 UTC
From: oscar873@aol.com
Topic: 834 Message: 835

David,
I also have a couple of these.
All I know about them has come has come from this web page.?
I am for the last four years looking for a R2174B manual.
I do not know how or where you would add an ISB board.
Gary W. may have some input on that question.
Al??

-----Original Message-----
From: away7388 <geoncho@...>
To: Racal6790GM@yahoogroups.com
Sent: Mon, 5 Nov 2007 7:07 am
Subject: [Racal6790GM] R-2174B unsual configuration. How can I install A5 option

Hi,

I bought R-2174B(P)/URR recently.

1. It tunes down to 1kHz. Below 1kHz the frequency display flashes.
tune rate : 1Hz / 30Hz / 100Hz
installed 7 filters including LSB/ISB & USB/ISB filters

2. On the rear panel there are additional connectors:

J8 VLF Ant In (N connector)
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stop at code 15.
at this step, display code 11 if I press & release CW button during
press LOCK button.

Receiver seems to work even there is error during BITE.

There is no room to install A5 ISB option board which has deliverd
with R-2174B.
How can I install A5 board? Should I remove A14 & A15 to install A5?

Thanks
David

_____
Email and AIM finally together. You've gotta check out free AOL Mail! - http://mail.aol.com

836. Re: R-2174B unsual configuration. How can I install A5 option

Yahoo group: Racal6790GM
Date: 2007-11-06 00:20:25 UTC
From: Graham
Topic: 834 Message: 836

Ive been looking for one of those boards for a while .. If you dont
fit the A5 isb , what would you sell it for ???

Tnx

G ..

--- In Racal6790GM@yahoogroups.com, oscar873@... wrote:
>
> David,
> I also have a couple of these.
> All I know about them has come has come from this web page.?
> I am for the last four years looking for a R2174B manual.
> I do not know how or where you would add an ISB board.
> Gary W. may have some input on that question.
> Al??
>
>
> -----Original Message-----
> From: away7388 <geoncho@...>
> To: Racal6790GM@yahoogroups.com
> Sent: Mon, 5 Nov 2007 7:07 am
> Subject: [Racal6790GM] R-2174B unsual configuration. How can I
install A5 option
>
>
>
>
>
>
>
> Hi,
>
> I bought R-2174B(P)/URR recently.
>
> 1. It tunes down to 1kHz. Below 1kHz the frequency display flashes.
> tune rate : 1Hz / 30Hz / 100Hz
> installed 7 filters including LSB/ISB & USB/ISB filters
>
> 2. On the rear panel there are additional connectors:
>
> J8 VLF Ant In (N connector)
> J9 3rd IF out (BNC)
> J10 AM Out (BNC)
> J11 FM Out (BNC)
>
> 3. Inside there are several additional assemblies:

>
> A14 (23386 4100361-501 IF CONVERTER CCA ASSY)
> A15 (23388 4100355-501 AM/FM DEMODULATOR CCA ASSY)
> A24 VLF converter
> A23 & A25 - enclosed in small boxes.
>
> This configuration seems a little bit different from usual 6790/GM.
>
> The BITE:
> stop at code 15.
> at this step, display code 11 if I press & release CW button during
> press LOCK button.
>
> Receiver seems to work even there is error during BITE.
>
> There is no room to install A5 ISB option board which has deliverd
> with R-2174B.
> How can I install A5 board? Should I remove A14 & A15 to install A5?
>
> Thanks
> David
>
>
>
>
>
>

--
> Email and AIM finally together. You've gotta check out free AOL
Mail! - http://mail.aol.com
>

837. (no subject)

Yahoo group: Racal6790GM
Date: 2007-11-06 22:02:33 UTC
From: s u
Topic: 837 Message: 837
Attachments: 1 described; binary payloads are missing from this source WARC

hi many thanks h need datasheet for racal syncal ma924----------tra921 many thanks again 73 to all nam helal rushedy my call su5hr--my qth salamon--tema --sohag---egypt

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

838. racal 921

Yahoo group: Racal6790GM
Date: 2007-11-06 22:06:30 UTC
From: s u
Topic: 837 Message: 838
Attachments: 1 described; binary payloads are missing from this source WARC

s u <su5hr2000@...> wrote: hi many thanks h need datasheet for racal syncal ma924----------tra921 many thanks again 73 to all nam helal rushedy my call su5hr--my qth salamon--tema --sohag---egypt

---
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

839. racal filter configuration

Yahoo group: Racal6790GM
Date: 2007-11-10 10:17:24 UTC
From: philippe
Topic: 839 Message: 839

hello for development software to interface racal receiver i need some information for filter installation, control and understan. I have filter FL1 to FL7. When i send S5 command, the answer is 3.4,.4,1.4,7.9,15,,. After bit test the button BW1: .4KHz, BW2: 1.4KHz, BW3: 3.4KHz, BW4: 7.9KHz and BW5: 15KHz. I think that microprocesseur change the place. Normal. But i am surprise S5 do not return L an U (inside de documentation for remote control receiver i read S5 return L,U,x1,x2,x3,x4,x5,) is it normal or not and i need some explanation and confirmation for relation between S5 and his answer and FL1 to FL7 location.
It appair that is not possible to change the wide filter LSB and USB. Is it normal? Best regards. Philippe

840. Re: [Racal6790GM] racal filter configuration

Yahoo group: Racal6790GM
Date: 2007-11-11 01:54:21 UTC
From: gewingerd@netzero.com
Topic: 839 Message: 840
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

841. Re : [Racal6790GM] racal filter configuration

Yahoo group: Racal6790GM
Date: 2007-11-11 13:53:39 UTC
From: philippe gombert
Topic: 841 Message: 841

Hello,

Thank for your answer.But i know theses commands, and for cabling i prefer change connector en replace by simple DB25 F connector (pin to pin is very quick.
I have also schematics and service and user manual. I had make some hardware maintenance and modification. But i use software for drive this fantastic receiver. Easy to use in manual and remote, very good dynamic and accuracy. Very easy to repair (if we have trouble).

For the filters: the arrangement between BW button front panel and FL insert location on the mother board and answer from S5 command by remote receiver is not the same. OK after the bite test the BW1 to BW5 is in increasing order but not in the answer from S5 command.

Is it normal or racal had develloped an other version firmare. It is important but i use software for read automatic S5 answer and modifie this arangement for attribution in software button filter.

Best regards.

Philippe

Inside very old manual i read that bit test transforme the arangement of filter for BW1 to BW5 for increasing order. It is a very good solution but why we do not have the same order with de answer after the S5 command. But i am ok an other solution is to demand a filter value for example 2.2 Khz and automaticly the racal search the nearest filter.

----- Message d'origine ----
De : "gewingerd@..." <gewingerd@...>
À : Racal6790GM@yahoogroups.com
Envoyé le : Dimanche, 11 Novembre 2007, 2h54mn 21s
Objet : Re: [Racal6790GM] racal filter configuration

Please see attached this may help.

These are the commands for the RA6790/GM RS232 Remote Interface, ADDRESS IS 00

ENTRY RESPONSE

$00S2 REMOTE Illuminates
S1 LOCAL, REMOTE GOES OFF
S2 REMOTE Illuminates
S3 STARTS BITE
S4 ENDS BITE
G GETS CURRENT RECEIVER SETTINGS
I .4 BW .4 KHz Selected
I 1 BW 1 KHz Selected
I 3 BW 3 KHz Selected
I 6 BW 6 KHz Selected

I 16 BW 16 KHz Selected
M1 AGC SHORT Selected
M2 AGC MEDIUM Selected
M3 AGC LONG Selected
M4 AGC MAN Selected
M5 AGC MAN/SHORT Selected
M6 AGC MAN/MEDIUM Selected
M7 AGC MAN/LONG Selected
B1.11 BFO +1.11
B-8.00 BFO -8.00
B8.00 BFO +8.00
F12.345678 FREQUENCY = 12.345678
F10.99 FREQUENCY = 10.99
D1 AM Selected
D2 FM Selected
D3 CW, BFO +8.00 Selected
D4 CW, BFO +0. Selected
D6 LSB Selected
D7 USB Selected

Thanks,
Gary

_____
Ne gardez plus qu'une seule adresse mail ! Copiez vos mails vers Yahoo! Mail

842. Re: Re : [Racal6790GM] racal filter configuration

Yahoo group: Racal6790GM
Date: 2007-11-11 23:15:57 UTC
From: Dan Rae
Topic: 841 Message: 842

philippe gombert wrote:

>
> For the filters: the arrangement between BW button front panel and FL
> insert location on the mother board and answer from S5 command by
> remote receiver is not the same. OK after the bite test the BW1 to BW5
> is in increasing order but not in the answer from S5 command.
>

Bonsoir Philppe:
I think there may be some confusion here from the rather difficult technical english language of the manual. I appreciate that english is not your first language...

For ssb (blu) use FL1 slot must have either a 3 kHz symmetrical filter centered on 455 kHz or, if separate Upper and Lower sideband filters are installed, then the Lower side band filter (bande laterale inferieure) filter must be in the FL1 position, normally with the Upper sideband one next to it (but I don't think this is essential). All the other symetrical filters, which are used for all other modes can be installed in any of the remaining slots, and as you have observed, the BITE routine will order them in increasing width from BW1 upwards for selection with the appropriate buttons.

As an aside, there is a routine in the manual for entering the filter bandwidths directly, which I prefer since BITE always will report a higher width than the marked one.

As far as I can tell the remote S5 command will return to the controller the width of the filters installed in the slots in numerical order; FL1 upwards through to the end, and has no relation to BW1, 2, 3 and so forth unless they just happen to be in the same order. However I have never found a need to use the remote facility myself so I am in the dark here...

Good luck, et bonne chance,
Dan
ac6ao / g3ncr

843. Wanted LSB Crystal Filter

Yahoo group: Racal6790GM
Date: 2007-11-17 15:20:21 UTC
From: vk5abc
Topic: 843 Message: 843

Hello Everyone

I need a LSB crystal filter to get my RA6790/GM working is there
anyone here with a spare filter.
I'll even take a filter which faulty so I can rebuild it.
BTW no wise cracks please!
73 Lee VK5ABC

844. RA6790GM RA1778 SHOOT OUT ....Some thing□s are better not done .

Yahoo group: Racal6790GM
Date: 2007-11-18 15:28:11 UTC
From: Graham
Topic: 844 Message: 844

RA6790GM RA1778 SHOOT OUT

Some thing's are better not done .

After finally sorting out the 1778, mainly by mending damage caused
by the nicad memory backup battery, spraying caustic over the
surrounding boards it started working ..

As a hands on `rx' it dose a good job, the agc characteristics give
a pleasant `headphone' experience (for want of a better description)

But coming as a surprise, I find the 1778 actually out preformed the
6790 when it came to resolving a weak signal in the noise on 14
MHz , ie , with the signal under the noise on the 6790 , swapping to
the 1778 it could still be `read' (usb voice)

In terms of cross-mod , the 6790 is far better, the 1778 falls over
on 1.8 Mhz when close to the local mw station , but with the □arrl-
bc filter or the sets own pre selector this situation is corrected.

So the question is Is my 6790 `duff' or is the 1778 actually a
better set ?

The 6790 is set up as per the `book'( all the instruments used `in
cal not owned by me) , its configured with the 3 Khz lsb/usb isb
filters , has the `vlf' front end and software , has no pre-amp
fitted , from what i can tell the filter in the 1778 is round the
same bandwith, cut off is not as sharp

Subjectively, the 6790 gives the impression of a higher noise `floor'
than the 1778 , anyone any ideas , checks etc ?

I was `quite happy' till now ! both sets out perform the skanti r5000
and the ft897 , so its not a 'bad' situation , its just the 'knowing'

Graham ..

845. Re: Wanted LSB Crystal Filter

Yahoo group: Racal6790GM
Date: 2007-11-18 15:34:35 UTC
From: Graham
Topic: 843 Message: 845

--- In Racal6790GM@yahoogroups.com, "vk5abc" <vk5abc@...> wrote:
>
> Hello Everyone
>
> I need a LSB crystal filter to get my RA6790/GM working is there
> anyone here with a spare filter.
> I'll even take a filter which faulty so I can rebuild it.
> BTW no wise cracks please!
> 73 Lee VK5ABC
>

Lee ,

You can fit the ones from the uk 'version' but you need to make up a adapter plate and add the shunt capacitor .. come up on e-bay sometimes , ive the isb filters in mine , but at 3 khz there a bit wide for 'ham' use

G ..

846. Re: [Racal6790GM] RA6790GM RA1778 SHOOT OUT

Yahoo group: Racal6790GM
Date: 2007-11-19 06:52:13 UTC
From: richard bogusz
Topic: 844 Message: 846

Hi Graham..

Luv my 1778 also... a "mans" radio..huh. .. however the 6790 running 1.6kc crystal filter and with the bfo offset 1.2kc is really hard to beat on ssb. Keep the if gain so that band noise just triggers the agc on Med... a sweet setup.. Funny that my 1778, with its preselector, appears better than the 6790 on the BCB.. but only just.

As for things "best not done".....just bought an old icom 720a for fun..... with lots of tweaking and removal of BCB attenuators etc... the wretched thing is a nicer radio than my ic775dsp and a host of supposed high-end units... at $120 I feel a bit silly but delighted....

Richard...
Beachmere.. Australia.

Be a better pen pal. Text or chat with friends inside Yahoo! Mail. See how.

847. Part ID question

Yahoo group: Racal6790GM
Date: 2007-11-20 01:17:38 UTC
From: Thomas C. Dailey - Dailey Services, LLC
Topic: 847 Message: 847

On page 6-24 of the manual, directly to the right of FL-4 and FL-5, I have a broken resistor, but due to the poor res' of the downloaded manual, I cannot read the component number, nor determine the value of the resistor, due to it's broken condition.

Does anybody have a higher resolution copy of this page OR area of the page, so I can figure out what part it is?

Tom Dailey
Denver
WØEAJ

848. Re: [Racal6790GM] Part ID question

Yahoo group: Racal6790GM
Date: 2007-11-20 02:21:20 UTC
From: toddroberts2001@aol.com
Topic: 847 Message: 848

In a message dated 11/19/2007 8:18:17 PM Eastern Standard Time,
daileyservices@... writes:
On page 6-24 of the manual, directly to the right of FL-4 and FL-5, I have a
broken resistor, but due to the poor res' of the downloaded manual, I cannot
read the component number, nor determine the value of the resistor, due to it's
broken condition.

Does anybody have a higher resolution copy of this page OR area of the page,
so I can figure out what part it is?

Tom Dailey
Denver
WØEAJ

Hi Tom,

Can you be more specific as to the exact location of the resistor? There are
several resistors 'directly to the right' of FL-4 and FL-5.

73 Todd WD4NGG

********** See what's new at http://www.aol.com

849. Re: [Racal6790GM] Part ID question

Yahoo group: Racal6790GM
Date: 2007-11-20 16:07:37 UTC
From: Dan Rae
Topic: 847 Message: 849

toddroberts2001@... wrote:

>In a message dated 11/19/2007 8:18:17 PM Eastern Standard Time,
>daileyservices@... writes:
>On page 6-24 of the manual, directly to the right of FL-4 and FL-5, I have a
>broken resistor, but due to the poor res' of the downloaded manual, I cannot
>read the component number, nor determine the value of the resistor, due to it's
>broken condition.
>
>
>Hi Tom,
>
>Can you be more specific as to the exact location of the resistor? There are
>several resistors 'directly to the right' of FL-4 and FL-5.
>
>73 Todd WD4NGG
>
>

As Todd says... In one of my manuals p 6-24 has a picture of the second
mixer, another has a parts list on that page.
I'm guessing then that you are talking about the area near the IF
filters on the A4 board. If that is the case then you are in luck since
the circuitry repeats for each filter, the resistors "to the right" are
the same for each filter.
73
Dan
ac6ao

850. Re: RA6790GM RA1778 SHOOT OUT

Yahoo group: Racal6790GM
Date: 2007-11-22 22:55:14 UTC
From: Graham
Topic: 844 Message: 850

Ok Richard,

Well , I'm just wondering , If I have a problem with the 6790 , what sort of noise floor should the set have , and more to the point what system would be used to measure it ?

Be intrested if anyone has any suggestions ??

Tnx - Graham ..

--- In Racal6790GM@yahoogroups.com, richard bogusz <mml430@...> wrote:
>
> Hi Graham..
>
> Luv my 1778 also... a "mans" radio..huh. .. however the 6790 running 1.6kc crystal filter and with the bfo offset 1.2kc is really hard to beat on ssb. Keep the if gain so that band noise just triggers the agc on Med... a sweet setup.. Funny that my 1778, with its preselector, appears better than the 6790 on the BCB.. but only just.
>
> As for things "best not done".....just bought an old icom 720a for fun..... with lots of tweaking and removal of BCB attenuators etc... the wretched thing is a nicer radio than my ic775dsp and a host of supposed high-end units... at $120 I feel a bit silly but delighted....
>
> Richard...
> Beachmere.. Australia.
>
>
>
> ---
> Be a better pen pal. Text or chat with friends inside Yahoo! Mail. See how.
>

851. Message from your moderator.

Yahoo group: Racal6790GM
Date: 2007-12-06 08:00:45 UTC
From: maxhdrm2
Topic: 851 Message: 851

Is there a member of this forum who would like to take over as
moderator? I think that it is time for me to give a qualified person a
chance to make this forum better. I sacrificed my RXs to fund the needs
a single mom and her baby while she was out of work. (my daughter)
The duties are easy enough, Just keep the spammers out. And perhaps
contribute something interesting to the group.
Drop me a line at Maxhdrm2@... if you would be interested. It
is my wish that the group rules stay loose and informal to include any
subjects remotely related to electronics and any posts that promote the
free flow of information.
Thanks to all, Max

852. Noise Blankers

Yahoo group: Racal6790GM
Date: 2007-12-06 21:06:58 UTC
From: electricapplejuice
Topic: 852 Message: 852

Hi,

Anybody ever found an external NB for use with the Racal 6790? I've considered the TimeWave stuff, but I'd rather have something before the antenna connector if possible, but if you have experiences with audio-output line stuff or otherwise, let me know what works. I'm unable to find circuits or homebrew plans for anyting.

Thanx - Tom - WØEAJ

853. RE: [Racal6790GM] Noise Blankers

Yahoo group: Racal6790GM
Date: 2007-12-06 21:32:26 UTC
From: Carcia, Francis A HS
Topic: 852 Message: 853

Tom,
Go to the Collins collector web site and down load the noise blanker from the KWM380 which looks like it could be adapted to a 6790. Might have to adjust an oscillator or tuned circuit here and there

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of electricapplejuice
Sent: Thursday, December 06, 2007 4:07 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Noise Blankers

Hi,

Anybody ever found an external NB for use with the Racal 6790? I've considered the TimeWave stuff, but I'd rather have something before the antenna connector if possible, but if you have experiences with audio-output line stuff or otherwise, let me know what works. I'm unable to find circuits or homebrew plans for anyting.

Thanx - Tom - WØEAJ

854. RE: [Racal6790GM] Noise Blankers

Yahoo group: Racal6790GM
Date: 2007-12-06 21:55:16 UTC
From: Hunter Ellington
Topic: 852 Message: 854

I use a Timewave DSP9+ with my 6790. It really works well generally, but does not work at all on pulse noise (ie electric fences).

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@... <mailto:hunter.ellington@...>

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of electricapplejuice
Sent: Thursday, December 06, 2007 2:07 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Noise Blankers

Hi,

Anybody ever found an external NB for use with the Racal 6790? I've considered the TimeWave stuff, but I'd rather have something before the antenna connector if possible, but if you have experiences with audio-output line stuff or otherwise, let me know what works. I'm unable to find circuits or homebrew plans for anyting.

Thanx - Tom - WØEAJ

855. RE: [Racal6790GM] Noise Blankers

Yahoo group: Racal6790GM
Date: 2007-12-07 13:58:58 UTC
From: Carcia, Francis A HS
Topic: 852 Message: 855

I just set my AGC to fast

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Hunter Ellington
Sent: Thursday, December 06, 2007 4:55 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] Noise Blankers

I use a Timewave DSP9+ with my 6790. It really works well generally, but does not work at all on pulse noise (ie electric fences).

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@gorrellgiles.com <mailto:hunter.ellington@...>

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of electricapplejuice
Sent: Thursday, December 06, 2007 2:07 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Noise Blankers

Hi,

Anybody ever found an external NB for use with the Racal 6790? I've considered the TimeWave stuff, but I'd rather have something before the antenna connector if possible, but if you have experiences with audio-output line stuff or otherwise, let me know what works. I'm unable to find circuits or homebrew plans for anyting.

Thanx - Tom - WØEAJ

856. [Racal6790GM] Noise Blankers

Yahoo group: Racal6790GM
Date: 2007-12-07 16:12:53 UTC
From: TC Dailey
Topic: 852 Message: 856

Ahh,

therein is my concern (i.e. pulse-noise). I have numerous idiot neighbors who use lamp-dimmers, auto-on yard lights, and ultrasonic air cleaners (the worst of the lot), thus it's the PN that I need to get rid of. Interestingly enough, even my old Kenwood TS-430S works very well for blanking such noise, so will try a time-wave my friend offered to me, to see how it works. I tried one of the newer TW "ANC-4" units, and it didn't even work well with fluroescent lights (tested at ASSOCIATED RADIO in Overland Park, KS). Yes, it did show improvement, but not enough for the price, I thought.

Will look into the one for the Collins 380.

Thanx - Tom

857. Re: Noise Blankers

Yahoo group: Racal6790GM
Date: 2007-12-07 19:56:19 UTC
From: Graham
Topic: 852 Message: 857

--- In Racal6790GM@yahoogroups.com, "TC Dailey" <daileyservices@...>
wrote:
>
> Ahh,
>
> therein is my concern (i.e. pulse-noise). I have numerous idiot
neighbors who use lamp-dimmers, auto-on yard lights, and ultrasonic
air cleaners (the worst of the lot), thus it's the PN that I need to
get rid of. Interestingly enough, even my old Kenwood TS-430S works
very well for blanking such noise, so will try a time-wave my friend
offered to me, to see how it works. I tried one of the newer TW "ANC-
4" units, and it didn't even work well with fluroescent lights
(tested at ASSOCIATED RADIO in Overland Park, KS). Yes, it did show
improvement, but not enough for the price, I thought.
>
> Will look into the one for the Collins 380.
>
> Thanx - Tom
>

You could allways try one of the 'free' digital back-end's Iv used
the 'drm' one , which along with the wide band digital audio , has a
option for ssb/am/fm/cw reception, with noise blanking , cheating a
bit as im down converting the 455khz IF output ... but works very
well..

Once the pulse has passed the roofing filter , its really part of the
signal and hard to deal with, I dont think there is a real way out
appart from digital processing, ok churns the audio up a bit , but
the overall result can be 'ok'

G ..

858. Re: Wanted LSB Crystal Filter

Yahoo group: Racal6790GM
Date: 2007-12-07 20:23:38 UTC
From: Graham
Topic: 843 Message: 858

--- In Racal6790GM@yahoogroups.com, "vk5abc" <vk5abc@...> wrote:
>
> Hello Everyone
>
> I need a LSB crystal filter to get my RA6790/GM working is there
> anyone here with a spare filter.
> I'll even take a filter which faulty so I can rebuild it.
> BTW no wise cracks please!
> 73 Lee VK5ABC
>
>>>> These are on e-bay at the moment , but 3.2 khz , may be a bit wide
g ..

Racal RA1792 6 Pole Crystal Filters LSB & USB Item number:
120193731024

859. Re: [Racal6790GM] Re: Noise Blankers

Yahoo group: Racal6790GM
Date: 2007-12-08 14:33:33 UTC
From: John Reed
Topic: 852 Message: 859

You should look for an article written by Dallas Lankford about a noise blanker for the RA6790. It's on the web. It is specifically designed to go after pulse noise. It is in the second IF chain, immediately after the second mixer. If you have narrow roofing filters (8 KHz) in the first IF it won't work too well, but if you have the 16 or 20 KHz filters it will. If you can't find this reference let me know. I can point you in the right direction.

John Reed, KA5QEP (new member)

----- Original Message -----
From: Graham
To: Racal6790GM@yahoogroups.com
Sent: Friday, December 07, 2007 1:56 PM
Subject: [Racal6790GM] Re: Noise Blankers

--- In Racal6790GM@yahoogroups.com, "TC Dailey" <daileyservices@...>
wrote:
>
> Ahh,
>
> therein is my concern (i.e. pulse-noise). I have numerous idiot
neighbors who use lamp-dimmers, auto-on yard lights, and ultrasonic
air cleaners (the worst of the lot), thus it's the PN that I need to
get rid of. Interestingly enough, even my old Kenwood TS-430S works
very well for blanking such noise, so will try a time-wave my friend
offered to me, to see how it works. I tried one of the newer TW "ANC-
4" units, and it didn't even work well with fluroescent lights
(tested at ASSOCIATED RADIO in Overland Park, KS). Yes, it did show
improvement, but not enough for the price, I thought.
>
> Will look into the one for the Collins 380.
>
> Thanx - Tom
>

You could allways try one of the 'free' digital back-end's Iv used
the 'drm' one , which along with the wide band digital audio , has a
option for ssb/am/fm/cw reception, with noise blanking , cheating a
bit as im down converting the 455khz IF output ... but works very
well..

Once the pulse has passed the roofing filter , its really part of the
signal and hard to deal with, I dont think there is a real way out
appart from digital processing, ok churns the audio up a bit , but
the overall result can be 'ok'

G ..

860. Re: [Racal6790GM] Re: Wanted LSB Crystal Filter

Yahoo group: Racal6790GM
Date: 2007-12-08 15:30:09 UTC
From: gewingerd@netzero.com
Topic: 843 Message: 860

Ebay has a complete card with filters 170175879095 in the UK.

Thanks,
Gary

Click to find out what your future holds.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4sue9yxFaEayk0kcWfzFppcOGLgZ0qEWEVPfGPNP4YAWYX9P/

861. RE: [Racal6790GM] Re: Noise Blankers

Yahoo group: Racal6790GM
Date: 2007-12-11 15:56:10 UTC
From: Carcia, Francis A HS
Topic: 852 Message: 861

I don't think you can buy the IC in that article any more. fc

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of John Reed
Sent: Saturday, December 08, 2007 9:34 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Re: Noise Blankers

You should look for an article written by Dallas Lankford about a noise blanker for the RA6790. It's on the web. It is specifically designed to go after pulse noise. It is in the second IF chain, immediately after the second mixer. If you have narrow roofing filters (8 KHz) in the first IF it won't work too well, but if you have the 16 or 20 KHz filters it will. If you can't find this reference let me know. I can point you in the right direction.

John Reed, KA5QEP (new member)

----- Original Message -----
From: Graham <mailto:g0nbd@...>
To: Racal6790GM@yahoogroups.com
<mailto:Racal6790GM@yahoogroups.com>
Sent: Friday, December 07, 2007 1:56 PM
Subject: [Racal6790GM] Re: Noise Blankers

--- In Racal6790GM@yahoogroups.com
<mailto:Racal6790GM@yahoogroups.com> , "TC Dailey" <daileyservices@...>
wrote:
>
> Ahh,
>
> therein is my concern (i.e. pulse-noise). I have numerous
idiot
neighbors who use lamp-dimmers, auto-on yard lights, and
ultrasonic
air cleaners (the worst of the lot), thus it's the PN that I
need to
get rid of. Interestingly enough, even my old Kenwood TS-430S
works
very well for blanking such noise, so will try a time-wave my
friend
offered to me, to see how it works. I tried one of the newer TW
"ANC-
4" units, and it didn't even work well with fluroescent lights

(tested at ASSOCIATED RADIO in Overland Park, KS). Yes, it did
show
improvement, but not enough for the price, I thought.
>
> Will look into the one for the Collins 380.
>
> Thanx - Tom
>

You could allways try one of the 'free' digital back-end's Iv
used
the 'drm' one , which along with the wide band digital audio ,
has a
option for ssb/am/fm/cw reception, with noise blanking ,
cheating a
bit as im down converting the 455khz IF output ... but works
very
well..

Once the pulse has passed the roofing filter , its really part
of the
signal and hard to deal with, I dont think there is a real way
out
appart from digital processing, ok churns the audio up a bit ,
but
the overall result can be 'ok'

G ..

862. Re: [Racal6790GM] Re: Noise Blankers

Yahoo group: Racal6790GM
Date: 2007-12-11 18:13:57 UTC
From: John Reed
Topic: 852 Message: 862

The noise blanker IC, Allegro ULN3846 is no longer available. There is, however a surface mount device that replaced it, Allegro A3845SLW. I think it may be available through Arrow Electronics. You will need a SurfBoard to mount it in a conventional IC slot.

John, KA5QEP

----- Original Message -----
From: Carcia, Francis A HS
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, December 11, 2007 9:56 AM
Subject: RE: [Racal6790GM] Re: Noise Blankers

I don't think you can buy the IC in that article any more. fc

---
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of John Reed
Sent: Saturday, December 08, 2007 9:34 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Re: Noise Blankers

You should look for an article written by Dallas Lankford about a noise blanker for the RA6790. It's on the web. It is specifically designed to go after pulse noise. It is in the second IF chain, immediately after the second mixer. If you have narrow roofing filters (8 KHz) in the first IF it won't work too well, but if you have the 16 or 20 KHz filters it will. If you can't find this reference let me know. I can point you in the right direction.

John Reed, KA5QEP (new member)

----- Original Message -----
From: Graham
To: Racal6790GM@yahoogroups.com
Sent: Friday, December 07, 2007 1:56 PM
Subject: [Racal6790GM] Re: Noise Blankers

--- In Racal6790GM@yahoogroups.com, "TC Dailey" <daileyservices@...>
wrote:
>
> Ahh,
>
> therein is my concern (i.e. pulse-noise). I have numerous idiot neighbors who use lamp-dimmers, auto-on yard lights, and ultrasonic air cleaners (the worst of the lot), thus it's the PN that I need to get rid of. Interestingly enough, even my old Kenwood TS-430S works very well for blanking such noise, so will try a time-wave my friend offered to me, to see how it works. I tried one of the newer TW "ANC-4" units, and it didn't even work well with fluroescent lights

(tested at ASSOCIATED RADIO in Overland Park, KS). Yes, it did show improvement, but not enough for the price, I thought.
>
> Will look into the one for the Collins 380.
>
> Thanx - Tom
>

You could allways try one of the 'free' digital back-end's Iv used the 'drm' one , which along with the wide band digital audio , has a option for ssb/am/fm/cw reception, with noise blanking , cheating a bit as im down converting the 455khz IF output ... but works very well..

Once the pulse has passed the roofing filter , its really part of the signal and hard to deal with, I dont think there is a real way out appart from digital processing, ok churns the audio up a bit , but the overall result can be 'ok'

G ..

863. Microprocessor noise

Yahoo group: Racal6790GM
Date: 2007-12-14 00:55:02 UTC
From: John Reed
Topic: 863 Message: 863

I have a Racal RA6793A with the factory installed LF extension option. The receiver performs well, except for what I consider a lot of microprocessor noise that shows in the high HF range, around 20 MHz. If I disconnect the antenna, the noise is still there, however if I unplug the antenna connection to the first mixer module, the noise is gone. I've also tried connecting the antenna directly to the first mixer. As soon as I complete the connection, the noise is back. Is there a way to cut down on this noise?

John Reed, KA5QEP

864. Re: [Racal6790GM] Microprocessor noise

Yahoo group: Racal6790GM
Date: 2007-12-14 13:54:02 UTC
From: FRANCIS CARCIA
Topic: 863 Message: 864

The 6830 does the same thing due to crud on the second mixer input. It is coming down the shield. I found some beads to put over the coax. Lankford replaced the coax with a transformer isolated diff. pair. Also make sure your first IF gain is not set too high. fc

John Reed <jreed@...> wrote: I have a Racal RA6793A with the factory installed LF extension option. The receiver performs well, except for what I consider a lot of microprocessor noise that shows in the high HF range, around 20 MHz. If I disconnect the antenna, the noise is still there, however if I unplug the antenna connection to the first mixer module, the noise is gone. I've also tried connecting the antenna directly to the first mixer. As soon as I complete the connection, the noise is back. Is there a way to cut down on this noise?

John Reed, KA5QEP

865. Collins 455 kHz Mechanical Filters

Yahoo group: Racal6790GM
Date: 2007-12-15 02:13:47 UTC
From: TC Dailey
Topic: 865 Message: 865
Attachments: 1 described; binary payloads are missing from this source WARC

Happened to see this on the Sherwood site.

http://www.sherweng.com/collins.htm

866. Re: [Racal6790GM] Collins 455 kHz Mechanical Filters

Yahoo group: Racal6790GM
Date: 2007-12-15 19:59:51 UTC
From: Mil Radman
Topic: 865 Message: 866

Thanks for the link, TC.
I have my sights set on the 2.4.
Regards,
John
--- TC Dailey <daileyservices@...> wrote:

> Happened to see this on the Sherwood site.
>
> http://www.sherweng.com/collins.htm

Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

867. RA6790/GM Displays

Yahoo group: Racal6790GM
Date: 2007-12-22 19:08:07 UTC
From: Gary E. Wingerd
Topic: 867 Message: 867

I have several new of the FREQUENCY LCD and the MODE LCD left. They are $50.00 each plus shipping if anyone needs them. I also have 9666 Firmware, Batteries, FET Kits, LED Kits and other parts. You can contact me at gewingerd@...

Everyone have a very Merry Christmas and a Happy New Year.

Thanks,
Gary Wingerd
The X Racal Guy

868. Re: [Racal6790GM] RA6790/GM Displays

Yahoo group: Racal6790GM
Date: 2007-12-22 21:40:52 UTC
From: mparkinson1
Topic: 867 Message: 868

Gary are you batteries 2.6 volts?
I need to find a 3.6 volts same package same vendor.
Thanks.
Matt Parkinson R-390A Depot Repair.

869. Re: [Racal6790GM] RA6790/GM Displays

Yahoo group: Racal6790GM
Date: 2007-12-22 22:02:50 UTC
From: gewingerd@netzero.com
Topic: 867 Message: 869

Matt,

They are 2.4 volts and are the VARTA MEMPAC Ni-MH # 55615702012

Thanks,
Gary

_____
Click for free information on accounting careers, $150/hour potential.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4s2cN0vGmUoM2ElW1r1teuoli2Q70qEroPdlZ21cD40Y0NTj/

870. Re: [Racal6790GM] RA6790/GM Displays

Yahoo group: Racal6790GM
Date: 2007-12-22 22:15:41 UTC
From: gewingerd@netzero.com
Topic: 867 Message: 870

http://www.batterystation.com/varta.htm

55615-703-012 is the 3.6 volt battery that you need.

Thanks,
Gary

Save hundreds on an Unsecured Loan - Click here.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4ty6oCooBo5qyF91bZuKYLeQxlQdaDWQbfr3F17JNlP1pE9T/

871. Re: [Racal6790GM] RA6790/GM Displays

Yahoo group: Racal6790GM
Date: 2007-12-23 00:19:42 UTC
From: mparkinson1
Topic: 867 Message: 871

Thanks Gary that what I need thanks again.
Matt Parkinson R-390A Depot Repair.

872. RA1792 A4 board?

Yahoo group: Racal6790GM
Date: 2007-12-24 10:25:41 UTC
From: vk5abc
Topic: 872 Message: 872

Hello Everyone
I have just got a RA1792 A4 board it looks the same as my RA6790/GM A4 board well, nearly. Can I use the RA1792 A4 board in place of my RA6790/GM A4 board in my RA6790/GM. I got the RA1792 A4 board for the filters. BTW which sounds better on SSB the crystal filters or the mechanical filters? Is it possible to have two USB filters installed on the same A4 board.

That is, have a lsb in slot 1 then a usb slot 2 mechnical filters then a usb crystal filter slot 4 or so and it work?
I have a 3kHz crystal filter and the radio reports it as a 7.9kHz any ideas?

73 Lee VK5ABC

873. Re:RA1792 A4 board?

Yahoo group: Racal6790GM
Date: 2007-12-24 14:18:17 UTC
From: Ed & Mary Wambold
Topic: 872 Message: 873

Interesting about your filter issue. I just received a 3 kc crystal filter from epay, still in it's original factory wrapping. Plugged it in, ran bite and it checked out as 8.3 kc. Even did a 'listening' check and it compares to a 8.3 kc filter.

Do they go wide when they go bad?

73's, Ed N3LHB

874. Re: [Racal6790GM] RA1792 A4 board?

Yahoo group: Racal6790GM
Date: 2007-12-24 14:41:27 UTC
From: gewingerd@netzero.com
Topic: 872 Message: 874

The A4 from the RA1792 will not work in the RA6790/GM receiver. You have to remove the filters and the coupling caps and install them on the A4 in the RA6790/GM.

Thanks,
Gary

Need cash? Apply now for a credit loan with fast approval.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tzEsn8hT5b5aomNnGVB9jOxJvRYECkyy82ac8tTkrG2ZUkx/

875. 3 kHz filters (was Racal6790GM] Re:RA1792 A4 board?)

Yahoo group: Racal6790GM
Date: 2007-12-24 14:46:34 UTC
From: Dan Rae
Topic: 872 Message: 875

Ed & Mary Wambold wrote:

> Interesting about your filter issue. I just received a 3 kc
> crystal filter from epay, still in it's original factory wrapping.
> Plugged it in, ran bite and it checked out as 8.3 kc. Even did a
> 'listening' check and it compares to a 8.3 kc filter.
>
> Do they go wide when they go bad?

Ed those filters are not bad. They are certainly not designed for ssb use though. If you look at the data from the manual, and there is a link provided by the seller of those on ebay, you will see that they are mainly specified for low group delay. The -1 dB bandwidth may indeed be 3 kHz but the -60 dB width is enormous. They aren't even a lot of use for AM either. I'm not sure what use they ever were except for data.

BITE will certainly not cope well with these.

73
Dan
ac6ao / g3ncr

876. 3 kHz filters (was Racal6790GM] Re:RA1792 A4 board?)

Yahoo group: Racal6790GM
Date: 2007-12-24 15:35:20 UTC
From: n3lhb
Topic: 872 Message: 876

Dan,

I guess I didn't pay much attention to the shape factor. That 3 kc filter tests just like a 6.8 (Racal PN 08414) that I have. Both the bite test and casual listening shows no difference between the 2 filters.

Anyway, I really bought it for AM use, kind of a bonus that it acts like a AM filter. If these old ears can't tell and bite shows it as wide, then I am happy. My bet is this is also what Lee is running into with his filter...

73's Ed N3LHB

878. Re: RA1792 A4 board?

Yahoo group: Racal6790GM
Date: 2007-12-24 19:02:30 UTC
From: vk5abc
Topic: 872 Message: 878

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...>
wrote:
>
> The A4 from the RA1792 will not work in the RA6790/GM receiver. You
have to remove the filters and the coupling caps and install them on
the A4 in the RA6790/GM.
>
> Thanks,
> Gary
> ---
> Need cash? Apply now for a credit loan with fast approval.
>
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tzEsn8hT5b5aomNnG
VB9jOxJvRYECkyy82ac8tTkrG2ZUkx/
>
Thanks Gary
Which sounds better crystal filters or Mechanical filters?

879. Marry christmas

Yahoo group: Racal6790GM
Date: 2007-12-24 19:28:13 UTC
From: s u
Topic: 879 Message: 879

happy for all with new ear2008 and Merry Christmas 73from helal-u5hrs

---
Looking for last minute shopping deals? Find them fast with Yahoo! Search.

880. Re: [Racal6790GM] Re: RA1792 A4 board?

Yahoo group: Racal6790GM
Date: 2007-12-24 21:50:46 UTC
From: gewingerd@netzero.com
Topic: 872 Message: 880

Which sounds better crystal filters or Mechanical filters?

I have had both and I think they sound the same, this may be because the IF has been filtered 2 times by other crystal filters. I find if you run the receiver in AGC SHORT with MAN AGC selected you will improve the audio quality.

Thanks,
Gary

_____
Celebrate the season with beautiful Christmas flower arrangements. Click now!
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4uu8uRxalXP1xlhD5JnuzH2vApZRi4VgzyaV864UfHigi3lP/

881. Re: [Racal6790GM] RA1792 A4 board?

Yahoo group: Racal6790GM
Date: 2007-12-24 15:57:26 UTC
From: FRANCIS CARCIA
Topic: 872 Message: 881

2 crystal filters of the same function on the board do nothing for you because only 1 is active at a time. You can gain some real performance in a racal by building a second filter section and cascading the filters. A small mmic amp in series to make up for the extra loss. My hot rod RA6830 has 3 filter modules with mechanical filters. Two modules cascaded in the filter slot and a third in the option slot between the IF and detector modules. Simple changes required in the mother board.The 6790 has plenty of room inside the chassis to do the same thing. You would have to duplicate the diode switching or use small relays. Then pick up the digital control bits from the radio so everything is automatic.
My filter skirts go down at least 100 dB and they are more vertical. frank wa1gfz .

vk5abc <vk5abc@...> wrote:
Hello Everyone
I have just got a RA1792 A4 board it looks the same as my RA6790/GM A4 board well, nearly. Can I use the RA1792 A4 board in place of my RA6790/GM A4 board in my RA6790/GM. I got the RA1792 A4 board for the filters. BTW which sounds better on SSB the crystal filters or the mechanical filters? Is it possible to have two USB filters installed on the same A4 board.

That is, have a lsb in slot 1 then a usb slot 2 mechnical filters then a usb crystal filter slot 4 or so and it work?
I have a 3kHz crystal filter and the radio reports it as a 7.9kHz
any ideas?

73 Lee VK5ABC

882. Re: RA1792 A4 board?

Yahoo group: Racal6790GM
Date: 2007-12-25 17:02:24 UTC
From: Tom Adams
Topic: 872 Message: 882

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...>
wrote:
>
> Which sounds better crystal filters or Mechanical filters?
>
> I have had both and I think they sound the same, this may be
because the IF has been filtered 2 times by other crystal filters. I
find if you run the receiver in AGC SHORT with MAN AGC selected you
will improve the audio quality.
>
> Thanks,
> Gary
>
>

Howdy, Gary!

While I agree with you on voice modes, I'd make one exception to that
statement.

My 6790/GM now had the independent sideband board installed, and as
you know that requires the seperate LSB and USB filters to be
installed in the radio.

As it happens, I have a pair of each... the mechanical and crystal
filters,and I have tried them both. BTW, the mechanicals were
temporarily borrowed from my 6793.

BTW... I note that for some reason, even without an ISB board
installed, every one of the 6793s I've seen have the seperate filters
instead of the combination filter. Likewise, they all seem to use
mechanical filters instead of crystal. Can you give me any insight as
to why that is?

First off... as far as SSB reception recovered audio quality and
intelligibity is concerned, IMHO the "combination" crystal filter has
ANY seperate pair beat, hands down.

As far as the mech vs. crystal thing is concerned, my call is that
the crystals sound better in this application.

I find that mechanical filters in general seem to have a
slightly "tinny" sound on voice modes; probably a result of ringing
that isn't as pronounced in crystal filters. It's a minor difference,
but a DIFFERENCE is all that it is; I can't really say that one
is "better sounding" than the other.

73's,

Mr. T., W9LBB

883. Re: RA6790/GM Displays

Yahoo group: Racal6790GM
Date: 2007-12-25 17:11:08 UTC
From: Tom Adams
Topic: 867 Message: 883

--- In Racal6790GM@yahoogroups.com, "Gary E. Wingerd" <gewingerd@...>
wrote:
>
> I have several new of the FREQUENCY LCD and the MODE LCD left. They
> are $50.00 each plus shipping if anyone needs them. I also have
9666
> Firmware, Batteries, FET Kits, LED Kits and other parts. You can
> contact me at gewingerd@...
>
> Everyone have a very Merry Christmas and a Happy New Year.
>
> Thanks,
> Gary Wingerd
> The X Racal Guy
>
Hi Gary!

I don't really need a display now, but I'm thinking I'd better sock
away one of the frequency displays for the future; the number
segments are just beginning to get a little bit fat here!

I'm a bit behind the curve here re. the 9666 firmware. I assume
that's the latest 6790/GM version.

What I'd like to know is this... what are the user selectable
tuning steps available in it?

Besides the lack of a real, mechanical S-meter, my only other
complaint with the 6790/GM is the presence of the 30 Hz tuning step;
it just irritates me. I'd MUCH prefer a 10 Hz step.

Does the 9666 software address that issue?

Thanks,

Mr. T., W9LBB

884. Re: [Racal6790GM] RA1792 A4 board?

Yahoo group: Racal6790GM
Date: 2007-12-25 19:16:22 UTC
From: John Reed
Topic: 872 Message: 884

If you want to double up on IF filters, I suggest adding a post IF filter board. This will eliminate a lot of the hiss that you hear outside the passband of the filters. This is especially noticable on narrow passbands. I tried this on an RA6793A, and the results were impressive. You will have to switch the added board with diodes or relays.

John Reed

----- Original Message -----
From: FRANCIS CARCIA
To: Racal6790GM@yahoogroups.com
Sent: Monday, December 24, 2007 9:57 AM
Subject: Re: [Racal6790GM] RA1792 A4 board?

2 crystal filters of the same function on the board do nothing for you because only 1 is active at a time. You can gain some real performance in a racal by building a second filter section and cascading the filters. A small mmic amp in series to make up for the extra loss. My hot rod RA6830 has 3 filter modules with mechanical filters. Two modules cascaded in the filter slot and a third in the option slot between the IF and detector modules. Simple changes required in the mother board.The 6790 has plenty of room inside the chassis to do the same thing. You would have to duplicate the diode switching or use small relays. Then pick up the digital control bits from the radio so everything is automatic.
My filter skirts go down at least 100 dB and they are more vertical. frank wa1gfz .

vk5abc <vk5abc@...> wrote:
Hello Everyone
I have just got a RA1792 A4 board it looks the same as my RA6790/GM A4
board well, nearly. Can I use the RA1792 A4 board in place of my
RA6790/GM A4 board in my RA6790/GM. I got the RA1792 A4 board for the
filters. BTW which sounds better on SSB the crystal filters or the
mechanical filters? Is it possible to have two USB filters installed
on the same A4 board.

That is, have a lsb in slot 1 then a usb slot 2 mechnical filters then
a usb crystal filter slot 4 or so and it work?
I have a 3kHz crystal filter and the radio reports it as a 7.9kHz
any ideas?

73 Lee VK5ABC

885. Re: [Racal6790GM] Re: RA6790/GM Displays

Yahoo group: Racal6790GM
Date: 2007-12-25 23:56:18 UTC
From: gewingerd@netzero.com
Topic: 867 Message: 885

Tom,

When you need the display just tell me I quoted $50.00 each and I will sell them to you for that plus shipping.

The 9666 software allows the receiver to start at 0 KHz and the all the data to come back from the remote card. It has the standard tuning increments. I did come across some other software out there that I think is being sold by Alan Bond.

thanks,
Gary

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http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4uNo113tB98sXcMCwsuQIwDzur3G8B5QGvQ1Ebi5HMhpsjC5/

886. TenTec NB addition

Yahoo group: Racal6790GM
Date: 2007-12-26 04:41:53 UTC
From: TC Dailey
Topic: 886 Message: 886

Hi Gang,

For anybody considering one, the TimeWave ANC-4 is pretty worthless on the 6790/GM. On some signals, it works fairly well, but on others, including lamp dimmers, air cleaners, and line noise, it's relatively useless. It also appears to attenuate the input signal to the point that when you turn up the IF gain, you seem to get back what you were trying to get rid of!

On the TenTec Scout NB... I have one coming, and have heard that this is a pretty good addition for the receiver. I just wonder if anybody's put one in THEIR 6790, or if I'm the trail-blazer here. It's a 455 kc unit, and runs on +15vdc, so it'll have a nice source of DC, right from the radio. I'll try it out in "breadboard" fashion if nobody else gives me guidance.

Tks in advance,

Tom
WØEAJ

887. RA 1792 Firmware

Yahoo group: Racal6790GM
Date: 2007-12-27 15:21:54 UTC
From: davesc50
Topic: 887 Message: 887

Hi All,

I am new to this group and don't yet have a 6790 (although I am looking hard). I do however have 4 RA1792's.
I have just uploaded three different firmware releases to the files section. Please feel free to take a look.
My problem is that I have some very none standard filters fitted to some of my A4 boards.
Over the years (before I aquired the receivers) the processor PCB's have been changed. This leaves me with differing bandwidths displayed on the front panel compaired with the actual filters fitted. It also leaves the FAULT indicator lit as the firmware assumes the filters are U/S.
I have an EPROM programer and loads of spare 27c16 EPROMS but can not find the firmware anywhere on the net.
I am looking for some help with either editing my existing firmware versions (witch I can do if I know what BITS to change)to display the correct bandwidths or someone willing to supply me with the correct firmware (whatever it may be) to suit my receivers.

I need firmware to support 1x RX fitted with
6Khz,3.2Khz,1Khz,300Hz,400Hz,340Hz crystal filters.

And a second RX fitted with
526-9957-010 (Collins Mech. 300Hz)

526-9957-020 (Collins Mech. 1Khz)

526-9957-030 (Collins Mech. 1.5Khz)

526-9957-040 (Collins Mech. 3Khz)

Sorry for such a big posting first time out but its a little difficult to make it any smaller.

Thanks,
Dave.S.

888. Re: [Racal6790GM] RA 1792 Firmware

Yahoo group: Racal6790GM
Date: 2007-12-27 15:40:05 UTC
From: gandalfg8@aol.com
Topic: 887 Message: 888

In a message dated 27/12/2007 15:22:29 GMT Standard Time,
davesc50@... writes:

I am looking for some help with either editing my existing firmware
versions (witch I can do if I know what BITS to change)to display the
correct bandwidths or someone willing to supply me with the correct
firmware (whatever it may be) to suit my receivers.

Hi Dave

I'm not sure whether or not editting the filter bandwidth info will cure
your "fault" indication, other things might also be adrift in your ROM sets,
although I think, for example, that something like an incorrect external
interface board will generally prevent the set from booting up in the first place.

However, I do have some information on where to look to edit the filter
bandwidths and will send you this off group.

You may also find it beneficial to join the Premium Receiver list, if you
haven't done so already.

regards

Nigel
GM8PZR

889. Re: [Racal6790GM] RA 1792 Firmware

Yahoo group: Racal6790GM
Date: 2007-12-27 15:59:03 UTC
From: Dan Rae
Topic: 887 Message: 889

davesc50 wrote:

>Hi All,
>
>I am new to this group and don't yet have a 6790 (although I am
>looking hard). I do however have 4 RA1792's.
>I have just uploaded three different firmware releases to the files
>section. Please feel free to take a look.
>My problem is that I have some very none standard filters fitted to
>some of my A4 boards.
>
>
SNIP

Dave, I can probably help, but not immediately since I will be away from my computer until next year from later on this morning.

The bandwidth settings are stored as data statements in the last eprom, usually about two thirds of the way through. They can be easily edited on the non BITE versions to reflect what you have. With the BITE versions (2 Eprom) the check sum will change if you edit, so the thing will fail BITE test 9, I think it is. I have never found a way of getting the BITE checksum to reflect the real one. I can tell you what to look for to find the filter data string.

I have a pdf with details of all the known 1792 firmware versions which I can send you. Also a lot of .BIN files but mostly for the more normal GA and GB filter sets. I also can send you a word file with the details of the many different filter sets. Maybe this should be moved off the 6790/GM reflector.

Some of the crystal filters marked as 455 kHz, particularly the "400 Hz" and "800 Hz" ones are offset sideband data filters and are not symmetrical around 455. These have special firmware and are not a lot of use for us normal folk.

I see that Nigel is giving you a hand, so...

73
Dan
ac6ao / g3ncr

890. Ra1792 Firmware thanks.

Yahoo group: Racal6790GM
Date: 2007-12-27 17:11:53 UTC
From: davesc50
Topic: 890 Message: 890

Hi All,

Thanks a bunch for all the help.
It has been pointed out to me that the 2 chip EPROM is a 2532 not a 2716 so I didn't have all the data in the ZIP the first time round.
I have now re-posted a corrected version.
Sorry.

Thanks again for the help,
Dave.S.

891. RA6790/GM A6A2 chips

Yahoo group: Racal6790GM
Date: 2007-12-28 09:54:19 UTC
From: vk5abc
Topic: 891 Message: 891

Hello Everyone
Does anyone one know where I can get P5101L sram chips for the
RA6790/GM A6A2 used at U7, U8. or is there a Equivalent chip?

73 Lee VK5ABC

892. Re: [Racal6790GM] RA6790/GM A6A2 chips

Yahoo group: Racal6790GM
Date: 2007-12-28 13:03:24 UTC
From: gewingerd@netzero.com
Topic: 891 Message: 892

You have to do a little web surfing, they are used in Pinball machines! You should replace both at the same time because of speed of different chip sets.

Try this http://4sale.sbszoo.com/ic_sram.htm

Thanks,
Gary

_____
Click for top financial advice. Reduce debt & save for retirement.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tx37L06m2auxjAjEvLCQMxRXbmr2KWMWHLt7ZovV1ZNig9r/

893. Re: [Racal6790GM] RA 1792 Firmware

Yahoo group: Racal6790GM
Date: 2007-12-27 15:52:38 UTC
From: FRANCIS CARCIA
Topic: 887 Message: 893

Speaking of the 1792 anybody out there know of a source for the display on a MA2232?

gandalfg8@... wrote: In a message dated 27/12/2007 15:22:29 GMT Standard Time,
davesc50@... writes:
I am looking for some help with either editing my existing firmware
versions (witch I can do if I know what BITS to change)to display the
correct bandwidths or someone willing to supply me with the correct
firmware (whatever it may be) to suit my receivers.

Hi Dave

I'm not sure whether or not editting the filter bandwidth info will cure your "fault" indication, other things might also be adrift in your ROM sets, although I think, for example, that something like an incorrect external interface board will generally prevent the set from booting up in the first place.

However, I do have some information on where to look to edit the filter bandwidths and will send you this off group.

You may also find it beneficial to join the Premium Receiver list, if you haven't done so already.

regards

Nigel
GM8PZR

894. Ra6790/GM #16 error slot one contains no filter

Yahoo group: Racal6790GM
Date: 2008-01-07 14:07:22 UTC
From: vk5abc
Topic: 894 Message: 894

Hello Everyone
I have two A4 boards one has 4 crystal filteres and regardless of
which filter I have in slot 1 and I have tried them all I get a #16
error does this mean my A2 board is on the fritz? BTW I checked the U21
the voltage at tp9 is correct. I also have a A4 board which has
mechanical filters still #16 error? I can also can tune the receiver,
but it will not recognize my filters. Any ideas?
73 Lee VK5ABC

895. Re: [Racal6790GM] Ra6790/GM #16 error slot one contains no filter

Yahoo group: Racal6790GM
Date: 2008-01-07 17:16:05 UTC
From: gewingerd@netzero.com
Topic: 894 Message: 895
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

896. Ra6790/GM #16 error slot one contains no filter

Yahoo group: Racal6790GM
Date: 2008-01-08 04:21:29 UTC
From: vk5abc
Topic: 894 Message: 896

Hello Everyone
I have two A4 boards one has 4 crystal filteres and regardless of
which filter I have in slot 1 and I have tried them all I get a #16
error does this mean my A2 board is on the fritz? BTW I checked the U21
the voltage at tp9 is correct. I also have a A4 board which has
mechanical filters still #16 error? I can also can tune the receiver,
but it will not recognize my filters. Any ideas?
73 Lee VK5ABC

897. New to Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2008-01-14 05:37:22 UTC
From: Jody
Topic: 897 Message: 897

I am looking for some information on the Racal 6790. I have been looking for a 6790 for a while. Today I purchased a cheaper one on ebay that needs filters and a battery, here is a link to the radio I bought: http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&rd=1&item=260200395148&ssPageName=STRK:MEWN:IT&ih=016

I wanted to source the group for some advice on getting the radio tuned up and running well. I have not received the radio yet but the add says it has no filters, the FL1 to FL7 slots. It also states it needs a battery. I talked to the owner and other than what was listed it powers on and display and all look good. I will be doing mostly SSB listening with the radio so I have been told that I need the 3.24Khz filter. Is this correct? I also need some info on locating battery that the radio needs. Other than the described problems without having the radio yet thats all I know of. What else can I expect to have to do to the radio to get it up to specs? From what I have read the 6790 is a solid performer and should be a good replacement for my Icom r71. Any information about the above items would be greatly appreciated!

Jody
KG4FVG

898. Re: New to Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2008-01-14 05:47:57 UTC
From: Jody
Topic: 897 Message: 898

If my link didnt work here is the ebay item number: Item number:
260200395148

--- In Racal6790GM@yahoogroups.com, "Jody" <zguy1243@...> wrote:
>
> I am looking for some information on the Racal 6790. I have been
> looking for a 6790 for a while. Today I purchased a cheaper one on
> ebay that needs filters and a battery, here is a link to the radio
I
> bought: http://cgi.ebay.com/ws/eBayISAPI.dll?
> ViewItem&rd=1&item=260200395148&ssPageName=STRK:MEWN:IT&ih=016
>
> I wanted to source the group for some advice on getting the radio
> tuned up and running well. I have not received the radio yet but
the
> add says it has no filters, the FL1 to FL7 slots. It also states
it
> needs a battery. I talked to the owner and other than what was
> listed it powers on and display and all look good. I will be doing
> mostly SSB listening with the radio so I have been told that I
need
> the 3.24Khz filter. Is this correct? I also need some info on
> locating battery that the radio needs. Other than the described
> problems without having the radio yet thats all I know of. What
else
> can I expect to have to do to the radio to get it up to specs?
From
> what I have read the 6790 is a solid performer and should be a
good
> replacement for my Icom r71. Any information about the above items
> would be greatly appreciated!
>
> Jody
> KG4FVG
>

899. Re: [Racal6790GM] Re: New to Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2008-01-14 15:37:17 UTC
From: Dan Rae
Topic: 897 Message: 899

Jody wrote:

>>I am looking for some information on the Racal 6790. I have been
>>looking for a 6790 for a while. Today I purchased a cheaper one on
>>ebay that needs filters and a battery, here is a link to the radio
>>
>>
Good luck with that one Jody.

Gary Wingerd who is on this list may be able to sell you the 3.24 filter that you need to get going. The 3 kHz ones recently being sold on eBay will not work for ssb. Check the archives for this one. Other possible sources of filters are those from the UK RA1792, a lot of boards for these have been sold with useful filters on them. They will not be the plug in kind but work well in the 6790/GM. Todd Roberts, also on this list has made some plug in boards that use the very nice Collins Mechanical filters which I can highly recommend.

Unfortunately you may well find other problems than the lack of filters and the battery. No Battery will not stop it working, it just forgets everything when you turn it off. All zeros and the fault light on is usually indicative of other problems. The first thing would be to check all the supply voltages.

Unfortunately a lot of the wild claims made by eBay sellers are just that. I could show you at least three descriptions recently that are laughable, and not just Radio M*rt's. A receiver that is "fully tested" will not have the fault light lit, for example, although that could still be regarded as the truth, I suppose, it just didn't pass all the tests.

As I and others have pointed out before the correct Varta battery is available from Mouser and elsewhere in the safer NiMH variety. This is much better than using AA Nicads in a holder glued to the top of the CPU chip for example, which I have seen, a sure recipe for expensive disaster.

Again, good luck with your radio. You will find plenty of advice here I'm sure when you get it in your hands.

Dan
ac6ao / g3ncr

900. Filters for 6790

Yahoo group: Racal6790GM
Date: 2008-01-14 16:34:22 UTC
From: TC Dailey
Topic: 900 Message: 900

Check with SHERWOOD ENGINEERING here in Denver. (the Drake guys). I seem to recall that he HAS numerous Collins mech-filters avail for the RACAL 6790/GM.

Tom - WØEAJ

901. Re: New to Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2008-01-14 16:53:31 UTC
From: Larry Strong
Topic: 897 Message: 901

Contact Gary Wingerd his name is on the list. He worked for Racal over 20 years and is an expert on Racal 6790's

Regards
Larry Strong

902. Racal 6790/GM Price/Problems

Yahoo group: Racal6790GM
Date: 2008-01-17 22:44:37 UTC
From: Jody
Topic: 902 Message: 902

What would a fair ebay price be for a receiver that was missing all filters and shows fault codes 02 and 05 on the internal self test. This is all I know of the radio. It is in very good cosmetic shape though. Would like to hear some opinions on the worth of the radio and thoughts on the two trouble codes displayed.

Thanks in advance,
Jody

903. Re: [Racal6790GM] Racal 6790/GM Price/Problems

Yahoo group: Racal6790GM
Date: 2008-01-18 18:12:11 UTC
From: gewingerd@netzero.com
Topic: 902 Message: 903

$300.00 because you will spend $250.00 to $1200.00 just for filters.

Thanks,
Gary

_____
Not making enough money? Click here to get free info on medical jobs
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tz1Ot16CQP1DVQZMEnwKD4xrvqhQcoEwYCLcz6u9J3dfX4t/

904. Re: [Racal6790GM] Racal 6790/GM Price/Problems

Yahoo group: Racal6790GM
Date: 2008-01-18 18:34:08 UTC
From: jody mathews
Topic: 902 Message: 904

I have got so much conflicting information. If I have NO filters in the radio and all I wish to listen to are USB transmissions I was told that a 3.24Khz Filter is ALL I need, as this filter is correct for usb and lsb comms. If this is correct would I really need 250 to 1200$ worth of filters alone? I am lost. I do believe I am going to send this radio to you Gary to have it put into spec if possible. I just want some understanding of the filters that are needed first.

Thanks.

"gewingerd@..." <gewingerd@...> wrote: $300.00 because you will spend $250.00 to $1200.00 just for filters.

Thanks,
Gary

_____
Not making enough money? Click here to get free info on medical jobs
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tz1Ot16CQP1DVQZMEnwKD4xrvqhQcoEwYCLcz6u9J3dfX4t/

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905. Re: [Racal6790GM] Racal 6790/GM Price/Problems

Yahoo group: Racal6790GM
Date: 2008-01-18 18:53:45 UTC
From: toddroberts2001@aol.com
Topic: 902 Message: 905

In a message dated 1/18/2008 1:34:58 PM Eastern Standard Time,
zguy1243@... writes:
I have got so much conflicting information. If I have NO filters in the radio
and all I wish to listen to are USB transmissions I was told that a 3.24Khz
Filter is ALL I need, as this filter is correct for usb and lsb comms. If this
is correct would I really need 250 to 1200$ worth of filters alone? I am lost.
I do believe I am going to send this radio to you Gary to have it put into
spec if possible. I just want some understanding of the filters that are needed
first.

Thanks.

You are correct. A single 3.24KHz symmetrical filter will get the 6790
working on USB, LSB, Narrow AM and even CW wide. The 3.24KHz filters tend to be more
sought after and are more rare on places like eBay so they tend to bring a
higher price than the other filters. They seem to go in the $100-$150 range on
eBay if you can find one there.

It is anybody's guess as to what the problem could be with the fault light
on. It will take some troubleshooting by someone experienced with servicing the
6790. My best recommendation would be to send it to Gary Wingerd and let him
straighten it out for you. Gary does first-class work.

73 Todd WD4NGG

**********Start the year off right. Easy ways to stay in shape.
http://body.aol.com/fitness/winter-exercise?NCID=aolcmp00300000002489

906. RE: [Racal6790GM] Racal 6790/GM Price/Problems

Yahoo group: Racal6790GM
Date: 2008-01-18 19:01:27 UTC
From: Hunter Ellington
Topic: 902 Message: 906

In any event, I think the $300.00 dollar range is the right target. You will probably spend more than that just getting the rig up and running. I love these receivers, but they are not for the faint of heart. Very different from the Icom, Yaesu crowd. If interested, there is a guy in New Mexico who gets these radios out of Los Alamos. He has them checked out by a tech, and is an honest seller. They tend to go in the $800.00 range. I have had good experience with him. Contact me and I will forward his contact information.

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@...
<mailto:hunter.ellington@...>

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of toddroberts2001@...
Sent: Friday, January 18, 2008 11:54 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Racal 6790/GM Price/Problems

In a message dated 1/18/2008 1:34:58 PM Eastern Standard Time,
zguy1243@yahoo.com <mailto:zguy1243%40yahoo.com> writes:
I have got so much conflicting information. If I have NO filters in the
radio
and all I wish to listen to are USB transmissions I was told that a
3.24Khz
Filter is ALL I need, as this filter is correct for usb and lsb comms.
If this
is correct would I really need 250 to 1200$ worth of filters alone? I am
lost.
I do believe I am going to send this radio to you Gary to have it put
into
spec if possible. I just want some understanding of the filters that are
needed
first.

Thanks.

You are correct. A single 3.24KHz symmetrical filter will get the 6790 working on USB, LSB, Narrow AM and even CW wide. The 3.24KHz filters tend to be more
sought after and are more rare on places like eBay so they tend to bring a
higher price than the other filters. They seem to go in the $100-$150 range on
eBay if you can find one there.

It is anybody's guess as to what the problem could be with the fault light
on. It will take some troubleshooting by someone experienced with servicing the
6790. My best recommendation would be to send it to Gary Wingerd and let him
straighten it out for you. Gary does first-class work.

73 Todd WD4NGG

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http://body.aol.com/fitness/winter-exercise?NCID=aolcmp00300000002489
<http://body.aol.com/fitness/winter-exercise?NCID=aolcmp00300000002489>

907. Re: [Racal6790GM] Racal 6790/GM Price/Problems

Yahoo group: Racal6790GM
Date: 2008-01-18 19:39:29 UTC
From: Dan Rae
Topic: 902 Message: 907

jody mathews wrote:

> I have got so much conflicting information. If I have NO filters in
> the radio and all I wish to listen to are USB transmissions I was told
> that a 3.24Khz Filter is ALL I need, as this filter is correct for usb
> and lsb comms.

This is CORRECT. You can also receive AM and CW with this single filter but it will not be optimum. So far I have seen no conflicting advice at all on the reflector. Different sources suggested for filters is all that I recall seeing. If you read the fine manual that is available for download, you will see the original filters listed and the installation explained. I still stand by my advice to avoid the 3 kHz wide special filter part number 08419, several of which have been sold on eBay recently. This is a linear phase filter for data reception, it has a terrible shape factor and will not work as a sole filter in the /GM for ssb reception. The one to look for is part number 08413 for the plug in version.

Gary is an acknowledged expert in these receivers, but he does not work for free, he does it for a living.

A brief cut and paste from the manual:

> If the ISB option is not used, either a lower sideband filter or
> symmetrical sideband filter may be installed in the FL1 position.
> When a lower sideband filter is installed, the companion upper
> sideband filter must be installed in one of the remaining filter
> positions. If a symmetrical sideband filter is used, the Receiver
> will use the filter installed in the FL1 position for both sidebands
> by making the appropriate frequency offsets to the first and last
> local oscillators. The remaining filters may be installed in any
> sequence in filter positions FL1- through FL7.

73
Dan
ac6ao / g3ncr (owner of at least five /GMs and a similar number of RA1792s, I think, maybe I lost count...)

908. Re: [Racal6790GM] Racal 6790/GM Price/Problems

Yahoo group: Racal6790GM
Date: 2008-01-18 19:50:38 UTC
From: jody mathews
Topic: 902 Message: 908

Ok, thanks for all the replies. I have better understanding of the filter issues now. I do plan on sending the unit to Gary for repair as it seems he is the man with the know how. I do understand that he does this for a living and would never ask anyone for services and not provide them with due compensation for said work or services. I am not clear on what basis you founded your comment.

Jody

Dan Rae <danrae@...> wrote: jody mathews wrote:

> I have got so much conflicting information. If I have NO filters in
> the radio and all I wish to listen to are USB transmissions I was told
> that a 3.24Khz Filter is ALL I need, as this filter is correct for usb
> and lsb comms.

This is CORRECT. You can also receive AM and CW with this single filter but it will not be optimum. So far I have seen no conflicting advice at all on the reflector. Different sources suggested for filters is all that I recall seeing. If you read the fine manual that is available for download, you will see the original filters listed and the installation explained. I still stand by my advice to avoid the 3 kHz wide special filter part number 08419, several of which have been sold on eBay recently. This is a linear phase filter for data reception, it has a terrible shape factor and will not work as a sole filter in the /GM for ssb reception. The one to look for is part number 08413 for the plug in version.

Gary is an acknowledged expert in these receivers, but he does not work for free, he does it for a living.

A brief cut and paste from the manual:

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> symmetrical sideband filter may be installed in the FL1 position.
> When a lower sideband filter is installed, the companion upper
> sideband filter must be installed in one of the remaining filter
> positions. If a symmetrical sideband filter is used, the Receiver
> will use the filter installed in the FL1 position for both sidebands
> by making the appropriate frequency offsets to the first and last
> local oscillators. The remaining filters may be installed in any
> sequence in filter positions FL1- through FL7.

73
Dan
ac6ao / g3ncr (owner of at least five /GMs and a similar number of RA1792s, I think, maybe I lost count...)

Never miss a thing. Make Yahoo your homepage.

909. Whadja mean by that?

Yahoo group: Racal6790GM
Date: 2008-01-18 19:56:24 UTC
From: TC Dailey
Topic: 909 Message: 909

Don't take it personally, Jody. All too often, folks will bug people with endless questions and such, while the questionee is trying to do this for a living, and I suspect the admonition was only a generalized one, not jody-specific.

Hey - you're lucky. Mine came with (courtesy of the USPS) a 45 degree bend in the front panel that required a 16 ton hydraulic press to straighten, fractured acrylic backing for the flex-boards, top & bottom covers that looked like a D9 "cat" ran over 'em, torn PC paths on the broken boards, and a back plate that required extensive bodywork. All you need is filters - cool!

Tom - WØEAJ

910. Re: [Racal6790GM] Whadja mean by that?

Yahoo group: Racal6790GM
Date: 2008-01-18 21:14:33 UTC
From: jody mathews
Topic: 909 Message: 910

I understand. I can imagine. I have just been trying to gain some information on the common points of the receiver. I suppose I will just send it over to Gary and explain what I want and leave the rest to him.

Thanks

TC Dailey <daileyservices@...> wrote:
Don't take it personally, Jody. All too often, folks will bug people with endless questions and such, while the questionee is trying to do this for a living, and I suspect the admonition was only a generalized one, not jody-specific.

Hey - you're lucky. Mine came with (courtesy of the USPS) a 45 degree bend in the front panel that required a 16 ton hydraulic press to straighten, fractured acrylic backing for the flex-boards, top & bottom covers that looked like a D9 "cat" ran over 'em, torn PC paths on the broken boards, and a back plate that required extensive bodywork. All you need is filters - cool!

Tom - W?EAJ

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911. Racal missing all filters

Yahoo group: Racal6790GM
Date: 2008-01-19 17:01:13 UTC
From: billw77aaz
Topic: 911 Message: 911

In my opinion, don't go any higher on the price of a partially stripped, non-working Racal.

I once bought a Collins 75A4, sans filters. The seller had pulled the filters because he knew the receiver itself was essentially junk. Over six months was spent making a new wiring harness (multiple open wires, small fire underneath), buying a complete set of heterodyne crystals (underneath, all pulled) on top of kluging in some R390A filters.

Suggest you be very careful that it is ONLY missing filters.

Bill - W7AAZ

912. Re: [Racal6790GM] Racal missing all filters

Yahoo group: Racal6790GM
Date: 2008-01-19 17:06:45 UTC
From: gewingerd@netzero.com
Topic: 911 Message: 912

By adding a jumper wire to slot 1 and running the BITE will tell if there is anything else wrong with the receiver. The receiver will have 20 KHz for slot 1 filter and no other filters.

Thanks,
Gary

_____
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http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tD9yJp5hQGppKPeRRTWY4oKqqMkF8vLcyek1PrhhdKlvXAd/

913. Re: [Racal6790GM] Racal missing all filters

Yahoo group: Racal6790GM
Date: 2008-01-19 17:30:04 UTC
From: jody mathews
Topic: 911 Message: 913

Here is what another person that had the radio in thier hands did and sent to me about it, i dont have the radio yet, its in shipping still but here is what information I received from the test the other individual did,

"the shield cover over the filter area was missing."

"In addition, performing a self test showed trouble codes 02(2nd LO lock failure) and 05 (3rd LO lock failure). Possibly as a result of these failures, the unit would not tune, or accept frequency input from the panel. Codes indicate bad A7 and A8 synthesizer boards."

Jody

"gewingerd@..." <gewingerd@...> wrote: By adding a jumper wire to slot 1 and running the BITE will tell if there is anything else wrong with the receiver. The receiver will have 20 KHz for slot 1 filter and no other filters.

Thanks,
Gary

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http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tD9yJp5hQGppKPeRRTWY4oKqqMkF8vLcyek1PrhhdKlvXAd/

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914. Re: [Racal6790GM] Racal missing all filters

Yahoo group: Racal6790GM
Date: 2008-01-19 17:39:31 UTC
From: Dan Rae
Topic: 911 Message: 914

jody mathews wrote:

>
> "In addition, performing a self test showed trouble codes 02(2nd LO
> lock failure) and 05 (3rd LO lock failure). Possibly as a result of
> these failures, the unit would not tune, or accept frequency input
> from the panel. Codes indicate bad A7 and A8 synthesizer boards."

But this could also be as simple as the ext / int ref switch at the back
being in the wrong position. About an easy a cure as you can find...
But "not tuning" would imply something else is indeed wrong... gary
will sort you out!

BITE results are not always what they seem to be.
dr

915. 6790 on Ebay now

Yahoo group: Racal6790GM
Date: 2008-01-22 18:53:17 UTC
From: Jody
Topic: 915 Message: 915

Here is a 6790 that is listed on Ebay at the time. In the photos it shows the filters as small blue objects, versus the larger silver plug in models that I have seen. What is the difference here in these and the larger silver ones I see?

http://cgi.ebay.com/RACAL-RA6790-GM-RA-6790-GM-recever-shortwave-6790GM_W0QQitemZ130191066835QQihZ003QQcategoryZ4673QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

916. Re: [Racal6790GM] 6790 on Ebay now

Yahoo group: Racal6790GM
Date: 2008-01-22 19:10:42 UTC
From: lrmagoo@att.net
Topic: 915 Message: 916

The Blue filters are Collins Mechanical Filters for the 6790. The silver boxes are the Crystal filters for the 6790.
Larry

---------- Original message from "Jody" <zguy1243@...>: ----------

Here is a 6790 that is listed on Ebay at the time. In the photos it shows the filters as small blue objects, versus the larger silver plug in models that I have seen. What is the difference here in these and the larger silver ones I see?

http://cgi.ebay.com/RACAL-RA6790-GM-RA-6790-GM-recever-shortwave-6790GM_W0QQitemZ130191066835QQihZ003QQcategoryZ4673QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

917. Re: [Racal6790GM] 6790 on Ebay now

Yahoo group: Racal6790GM
Date: 2008-01-22 19:19:52 UTC
From: Dan Rae
Topic: 915 Message: 917

Jody wrote:

>Here is a 6790 that is listed on Ebay at the time. In the photos it
>shows the filters as small blue objects, versus the larger silver plug
>in models that I have seen. What is the difference here in these and
>the larger silver ones I see?
>
>
They are the Collins mechanical filters sometimes fitted to non military
/GMs. The others are mostly crystal although the 16 kHz one is LC.

Racal part numbers 07883-1 to 07883-6 in the manual list of filters
will give you the details...

A nice radio with the A1 rf amp fitted, even with all zeros showing it's
a good buy, so far at least... That's even money on a dead tantalum
capacitor somewhere...

73
dr

918. RA6790 gain

Yahoo group: Racal6790GM
Date: 2008-01-24 11:56:55 UTC
From: takisperdikaris
Topic: 918 Message: 918

Hello everyone .
I have a RA6790 and my problem is low gain .
I receive some stations with always low RF level indications .
When in manual mode turning IF gain control towerd both ends of travel
the range of display goes from zero to midrange only .
Because manual states " from zero to full scale " did this condition
tell something about my problem ?
Any help wellcomed and thank you in advance .
Takis , sv1fjl .

919. Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 16:45:01 UTC
From: Jody
Topic: 919 Message: 919

Just received the ebay 6790 i bought the was missing filters and fault light and so on. When I unpacked it was set to external and not internal. I powered it on in this condition and there was a fault light and it had all zeros on the screeen. I then powered it off and set the switch to internal. Now the radio powers on with NO fault light and tunes around just fine, the freq readout works. I dont have a headphone that will for it now, gotta run to the shack and get a adapter. So do you think that I got so lucky that it was the external/internal switch casueing the problem? I have no errror codes now at and the radio tunes. As stated, there are no filters in the radio, for testing, what is the procedure to place a jumper in there to get a 20Khz bandwidth?

Thanks!
Jody

920. Re: [Racal6790GM] Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 17:03:03 UTC
From: Dan Rae
Topic: 919 Message: 920

Jody wrote:

>Just received the ebay 6790 i bought the was missing filters and fault
>light and so on. When I unpacked it was set to external and not
>internal.
>
Did I say that or what?

>what is the procedure to place a jumper in there
>to get a 20Khz bandwidth?
>

run a wire between the two smaller sockets on the FL1 position.

Then ask gary if he can sell you some filters!

gl

dr

921. Re: Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 17:10:53 UTC
From: Jody
Topic: 919 Message: 921

I tell ya, im like a kid on Christmas morning. I just plugged some
headphones in it and can hear local am stations. I have not jumped
the FL1 yet. For some reason the radio is tuning a 20Khz bandwidth.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> Jody wrote:
>
> >Just received the ebay 6790 i bought the was missing filters and
fault
> >light and so on. When I unpacked it was set to external and not
> >internal.
> >
> Did I say that or what?
>
> >what is the procedure to place a jumper in there
> >to get a 20Khz bandwidth?
> >
>
>
> run a wire between the two smaller sockets on the FL1 position.
>
> Then ask gary if he can sell you some filters!
>
> gl
>
> dr
>

922. Re: [Racal6790GM] Re: Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 17:15:28 UTC
From: FRANCIS CARCIA
Topic: 919 Message: 922

You may be just hearing leakage across the open filter sockets. Try the jumper and signals should get a lot stronger.

Jody <zguy1243@...> wrote: I tell ya, im like a kid on Christmas morning. I just plugged some
headphones in it and can hear local am stations. I have not jumped
the FL1 yet. For some reason the radio is tuning a 20Khz bandwidth.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> Jody wrote:
>
> >Just received the ebay 6790 i bought the was missing filters and
fault
> >light and so on. When I unpacked it was set to external and not
> >internal.
> >
> Did I say that or what?
>
> >what is the procedure to place a jumper in there
> >to get a 20Khz bandwidth?
> >
>
>
> run a wire between the two smaller sockets on the FL1 position.
>
> Then ask gary if he can sell you some filters!
>
> gl
>
> dr
>

923. Re: [Racal6790GM] Re: Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 17:49:14 UTC
From: lrmagoo@att.net
Topic: 919 Message: 923

Check FL-7 position to see if there is already a wire jumper there. It would run diagonally across the space allowed for the filter to sit.
Larry

---------- Original message from "Jody" <zguy1243@...>: ----------

I tell ya, im like a kid on Christmas morning. I just plugged some
headphones in it and can hear local am stations. I have not jumped
the FL1 yet. For some reason the radio is tuning a 20Khz bandwidth.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> Jody wrote:
>
> >Just received the ebay 6790 i bought the was missing filters and
fault
> >light and so on. When I unpacked it was set to external and not
> >internal.
> >
> Did I say that or what?
>
> >what is the procedure to place a jumper in there
> >to get a 20Khz bandwidth?
> >
>
>
> run a wire between the two smaller sockets on the FL1 position.
>
> Then ask gary if he can sell you some filters!
>
> gl
>
> dr
>

924. Re: [Racal6790GM] Re: Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 18:07:53 UTC
From: lrmagoo@att.net
Topic: 919 Message: 924

Jody,
That's great that you are up & listening. I think I remember correctly that you wanted to listen to sideband. One of the members Todd?? makes his own version of a SSB filter. Racal's up tp 3.2KHz is too wide for good SSB listening.
Larry

-------------- Original message from "Jody" <zguy1243@...>: --------------

I tell ya, im like a kid on Christmas morning. I just plugged some
headphones in it and can hear local am stations. I have not jumped
the FL1 yet. For some reason the radio is tuning a 20Khz bandwidth.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> Jody wrote:
>
> >Just received the ebay 6790 i bought the was missing filters and
fault
> >light and so on. When I unpacked it was set to external and not
> >internal.
> >
> Did I say that or what?
>
> >what is the procedure to place a jumper in there
> >to get a 20Khz bandwidth?
> >
>
>
> run a wire between the two smaller sockets on the FL1 position.
>
> Then ask gary if he can sell you some filters!
>
> gl
>
> dr
>

925. Re: [Racal6790GM] Re: Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 18:15:58 UTC
From: jody mathews
Topic: 919 Message: 925

Yeah, My main interest is utility HF comms. In response to the filter jumper. I see no jumper at across the filter spots. FL7 does a patch across it,, but its just below where the filter plugs in, not directly in the holes. Also in what I have read the 6790 does not tune below 500Khz, well im am listening to the local airport beacon at 323 Khz right now. This radio was one of the Ebay batch that came from Fast sell in Arizona. I talked them down on this to 150$ due to the fact that it had been returned 2 times. It looks like I got smokin deal. Time to get it tuned up and filters loaded. Thanks for all the help that the members have provided.

Jody

lrmagoo@... wrote:

Jody,
That's great that you are up & listening. I think I remember correctly that you wanted to listen to sideband. One of the members Todd?? makes his own version of a SSB filter. Racal's up tp 3.2KHz is too wide for good SSB listening.
Larry

---------- Original message from "Jody" <zguy1243@...>: ----------

I tell ya, im like a kid on Christmas morning. I just plugged some
headphones in it and can hear local am stations. I have not jumped
the FL1 yet. For some reason the radio is tuning a 20Khz bandwidth.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> Jody wrote:
>
> >Just received the ebay 6790 i bought the was missing filters and
fault
> >light and so on. When I unpacked it was set to external and not
> >internal.
> >
> Did I say that or what?
>
> >what is the procedure to place a jumper in there
> >to get a 20Khz bandwidth?
> >
>
>
> run a wire between the two smaller sockets on the FL1 position.
>
> Then ask gary if he can sell you some filters!
>
> gl

>
> dr
>

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926. Re: [Racal6790GM] Re: Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 18:42:40 UTC
From: jody mathews
Topic: 919 Message: 926

Here are some more of my findings on the radio, are these normal?

The radio will select CW mode and allow for USB reception and tuning with the BFO with 19Khz BW displayed. The receive is very wide, but I am still tuning the 20 meter ham band with readable signals.

When trying to select USB or LSB there is no received audio at all when selecting these modes. I assume these modes cannot be selected at all due to the fact that there are no filters.

Being my first premium receiver I can say the audio quality is amazing. Even with wrong filter BW''s the received audio is incredible.

Jody

jody mathews <zguy1243@...> wrote:
Yeah, My main interest is utility HF comms. In response to the filter jumper. I see no jumper at across the filter spots. FL7 does a patch across it,, but its just below where the filter plugs in, not directly in the holes. Also in what I have read the 6790 does not tune below 500Khz, well im am listening to the local airport beacon at 323 Khz right now. This radio was one of the Ebay batch that came from Fast sell in Arizona. I talked them down on this to 150$ due to the fact that it had been returned 2 times. It looks like I got smokin deal. Time to get it tuned up and filters loaded. Thanks for all the help that the members have provided.

Jody

lrmagoo@... wrote:

Jody,
That's great that you are up & listening. I think I remember correctly that you wanted to listen to sideband. One of the members Todd?? makes his own version of a SSB filter. Racal's up tp 3.2KHz is too wide for good SSB listening.
Larry

---------- Original message from "Jody" <zguy1243@...>: ----------

I tell ya, im like a kid on Christmas morning. I just plugged some
headphones in it and can hear local am stations. I have not jumped
the FL1 yet. For some reason the radio is tuning a 20Khz bandwidth.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> Jody wrote:
>
> >Just received the ebay 6790 i bought the was missing filters and
fault
> >light and so on. When I unpacked it was set to external and not

> >internal.
> >
> Did I say that or what?
>
> >what is the procedure to place a jumper in there
> >to get a 20Khz bandwidth?
> >
>
>
> run a wire between the two smaller sockets on the FL1 position.
>
> Then ask gary if he can sell you some filters!
>
> gl
>
> dr
>

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927. Re: [Racal6790GM] Re: Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 18:43:38 UTC
From: gewingerd@netzero.com
Topic: 919 Message: 927

Parts I carry in stock, All parts are new.

7883-1 400 Hz Mechanical Filter less coupling caps $50.00 Each plus shipping
7883-2 1 KHz Mechanical Filter less coupling caps $50.00 Each plus shipping
7883-3 6 KHz Mechanical Filter less coupling caps $50.00 Each plus shipping
8408 6.8 KHz Crystal Filter $50.00 Each plus shipping
8414 6.8 KHz Crystal Filter $50.00 Each plus shipping
8420 6 KHz Crystal Filter $50.00 Each plus shipping
8699 150 Hz Crystal Filter $50.00 Each plus shipping
1600121 3 KHz Crystal Filter $50.00 Each plus shipping
1600159 6 KHz Crystal Filter $50.00 Each plus shipping
3600005 6 KHz Crystal Filter $50.00 Each plus shipping

Frequency LCD Display RA6790/GM $55.00 Each plus shipping
Mode LCD Display RA6790/GM and RA6793 $55.00 Each plus shipping
Frequency LCD Display RA6793, RA6793A and RA6793A-6 $75.00 Each plus shipping

Battery Micro-card BT1 $15.00 Each plus shipping

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LED Board KIT $50.00 Each plus shipping
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Right Front Panel Frequency Keypad $45.00 Each plus shipping

GARY E. WINGERD
9107 JORDAN RD.
FAIRPLAY, MD 21733

GEWINGERD@NETZERO.COM

_____
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928. Re: [Racal6790GM] Re: Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 18:49:49 UTC
From: jody mathews
Topic: 919 Message: 928

Gary,
Give me your paypal address and pick me out a plug Crsytal filter that will get me goin for USB and LSB and I will send you over payment for what I need.

Jody

"gewingerd@..." <gewingerd@...> wrote:
Parts I carry in stock, All parts are new.

7883-1 400 Hz Mechanical Filter less coupling caps $50.00 Each plus shipping
7883-2 1 KHz Mechanical Filter less coupling caps $50.00 Each plus shipping
7883-3 6 KHz Mechanical Filter less coupling caps $50.00 Each plus shipping
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GEWINGERD@...

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929. Re: [Racal6790GM] Re: Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 18:51:48 UTC
From: gewingerd@netzero.com
Topic: 919 Message: 929

Lock Am and run BITE. The jumper should be across FL1 slot, take a small paper clip or a low value resistor, bend it and plug it in to the small cup holes where the crystal filter would plug in and then run BITE.
If the unit tunes down below 500 KHz then it has the 9666 software or some version of lo freq software depending if it has a RS232 remote or a IEEE remote. The software numbers should be on the chips on the A6A2 card.

Thanks,
Gary

Click for information on obtaining a VA loan.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tzAqS9T3o1gja39Y4pJw6H5kZgi9fClGCpr04glqYLgC4q1/

930. Re: [Racal6790GM] Re: Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 18:54:59 UTC
From: gewingerd@netzero.com
Topic: 919 Message: 930

Jody,

My paypal is gewingerd@..., I will check the filters before I ship and I will check to see if have the ones that you need. I sell a bunch of fitters for these receivers each year and I am down to about 200 or so left.

thanks,
Gary

_____
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http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4txfqrcCnYERUKMwz3naSQ1IpCcv4UG90bUbE9aLxM88hZC5/

931. Re: [Racal6790GM] Re: Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 17:56:56 UTC
From: Dan Rae
Topic: 919 Message: 931

Jody wrote:

>I tell ya, im like a kid on Christmas morning. I just plugged some
>headphones in it and can hear local am stations. I have not jumped
>the FL1 yet. For some reason the radio is tuning a 20Khz bandwidth.
>
>
>
If the FL7 slot is jumpered, as it often is, then it must be using that
slot, if you're hearing anything at all.
dr

932. RE: [Racal6790GM] Re: Good news! I think...

Yahoo group: Racal6790GM
Date: 2008-01-24 18:59:06 UTC
From: Carcia, Francis A HS
Topic: 919 Message: 932

May I suggest the 6.8 KHz filter for AM. Nice sounding BW. The mechanical filter is tighter in traffic but the 3 KHz sounds better under good conditions.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of jody mathews
Sent: Thursday, January 24, 2008 1:50 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Re: Good news! I think...

Gary,
Give me your paypal address and pick me out a plug Crsytal filter that will get me goin for USB and LSB and I will send you over payment for what I need.

Jody

"gewingerd@netzero.com" <gewingerd@...> wrote:

Parts I carry in stock, All parts are new.

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7883-2 1 KHz Mechanical Filter less coupling caps $50.00 Each plus shipping
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9107 JORDAN RD.
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GEWINGERD@... <mailto:GEWINGERD%40NETZERO.COM>

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b47FCg7Z0YWA9RVs9wZ8Duct51MOCN/>

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933. Fixed 6790 & questions

Yahoo group: Racal6790GM
Date: 2008-01-24 23:43:22 UTC
From: TC Dailey
Topic: 933 Message: 933

Hi Gang,

I have the "rescued" 6790/GM that came from Hunter (WB9NJB), previously having been attacked by the USPS. After extensive bodywork, creative-regluing of the lucite touch-pad retainers, repair of the illumination board (the front panel was BENT some 50 degrees), and other repairs to other torn & scraped paths, the receiver now works splendidly.

However:

Not all filters appear to be selectable, and as of late, I've noticed the "mode" display occasionally turning on ALL of the LCD indications, while the receiver is still operating correctly [note: This primarily happens when the receiver has been on for quite some time -yes, it's ventilated top & bottom] Owing to the not-selected parameter indicators being slightly dimmer than the Selected ones, I'm suspecting the LCD driver(s).

I've also obtained a TenTec Scout Noise-blanker, and after I build up a noise-gate, I'll try using it in the 6790, as it seems as if nobody has come up with a good "drop in" NB for this otherwise fine receiver.

Feedback on all - please.

Thanx - 73 - Tom - WØEAJ

934. LED lighting replacement.

Yahoo group: Racal6790GM
Date: 2008-01-26 19:15:48 UTC
From: larry.mcgee20
Topic: 934 Message: 934

Hello to the list.

I need to get the LED lighting around the Freq./Mode LCD working.

I see the part number in the manual is "Data Display Products SP811211-y).

Is that the yellow or green LED?

I have not been able to find that part number in any of the regular catalogs. Does anyone have another, current part number for the green as well as the yellow LEDs?

Thanks.. Larry

935. A1 RF amplifier question

Yahoo group: Racal6790GM
Date: 2008-01-26 21:00:26 UTC
From: Dan Rae
Topic: 935 Message: 935

I'm in the process of fitting the RF amplifier option to one of my /GMs. Does anyone know how the A1 box muting connections were done by RCI in the /GM when this option was fitted? I presume if I follow those for the RA1792 I will not be far wrong, at least as far as the muting input is concerned; there seems no point in using the muting output since the /GM firmware will ignore it...
73 all,
Dan
ac6ao / g3ncr

936. Re: [Racal6790GM] A1 RF amplifier question

Yahoo group: Racal6790GM
Date: 2008-01-26 22:43:21 UTC
From: gewingerd@netzero.com
Topic: 935 Message: 936

Mute is done externally via the audio connector when the amp is fitted, you have to following the wiring in the book from the back panel to the A4 back the wiring harness to the A1 RF Amp. All that said find the pin on the A1 RF amp and bring it out the rear.

Thanks,
Gary

_____
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937. Re: [Racal6790GM] LED lighting replacement.

Yahoo group: Racal6790GM
Date: 2008-01-26 23:06:09 UTC
From: TC Dailey
Topic: 934 Message: 937

Funny this thread is going - I've worked up a lighting board design to replace the "grain-o-wheat" bulbs - the difficulty is finding LED's that "fire" sideways or thin ones that can be mounted "pointing-in". Also, keep in mind that EACH device must have it's OWN bias resistor - 1 resistor won't do it - the internal resistance of the lowest-value LED will illuminate and ignore the rest. Assuming a max of 20ma for each LED, one can use fairly low-value resistors (for each), with a MASTER biasing resistor for overall illumination (using a pot).

Power will come from the 15vdc line that presently goes to the bulb-board. I used those bulbs in avionics, and they were ALWAYS installed in a conservatively rated situation, as even at 12vdc, they don't last very long, and at 15vdc... well, you figure it out.

It's not something I'm burning to do, but when I pull the radio off the shelf, it'll get made.

Tom - WØEAJ

938. Re: LED lighting replacement.

Yahoo group: Racal6790GM
Date: 2008-01-26 23:54:23 UTC
From: Graham
Topic: 934 Message: 938

--- In Racal6790GM@yahoogroups.com, "larry.mcgee20" <lrmagoo@...> wrote:
>
> Hello to the list.
>
> I need to get the LED lighting around the Freq./Mode LCD working.
>
> I see the part number in the manual is "Data Display Products
> SP811211-y).
>
> Is that the yellow or green LED?
>
> I have not been able to find that part number in any of the regular
> catalogs. Does anyone have another, current part number for the green
> as well as the yellow LEDs?
>
> Thanks.. Larry

I had a problem with my set , the lamps where very dim, but could not establish , how bright leds should of been ... then one day turned power on and the leds where very bright ! been ok since ... must of beed a connection failed .. are yours u/s or just dim , may be the same ? - G ..
>

939. Re: [Racal6790GM] LED lighting replacement.

Yahoo group: Racal6790GM
Date: 2008-01-27 00:39:48 UTC
From: gewingerd@netzero.com
Topic: 934 Message: 939

I sell the LED Upgrade board for $75.00 plus shipping with instructions.
Gary E. Wingerd

_____
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http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4s28jYHf6wbDPc2xuz5Qdw4Vll8rcDPFbq2IX5PNaeEqScql/

940. Re[2]: [Racal6790GM] LED lighting replacement.

Yahoo group: Racal6790GM
Date: 2008-01-27 00:56:05 UTC
From: support
Topic: 934 Message: 940

Hi Gary:
Did you get my earlier message? I'm having trouble re-programming the receiver (6790) after replacing the battery. Seems I've got a 6KHz offset in the frequency display now. The display reads 7.0347, when it's actually tuned to 7.0403 MHz. USB and LSB functions work fine. I used your forced filter routing and got all the filters working correctly.

I think it's just a setting somewhere in the battery backed RAM, but I don't know the secret codes to do it. any help would be appreciated.
bc
bill craig

********** REPLY SEPARATOR **********

On 1/27/08 at 12:39 AM gewingerd@netzero.com wrote:

I sell the LED Upgrade board for $75.00 plus shipping with instructions.
Gary E. Wingerd

_____
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http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4s28jYHf6wbDPc2xuz5Qdw4Vll8rcDPFbq2IX5PNaeEqScql/

941. Re[2]: [Racal6790GM] LED lighting replacement.

Yahoo group: Racal6790GM
Date: 2008-01-27 00:57:51 UTC
From: support
Topic: 934 Message: 941

If you need help Tom, holler. Glad to help w/ the PCB, whatever.
Consider using white LEDs?
bc
bill craig
bill.craig61@...
billc@...

********** REPLY SEPARATOR **********

On 1/26/08 at 4:06 PM TC Dailey wrote:

Funny this thread is going - I've worked up a lighting board design to replace the "grain-o-wheat" bulbs - the difficulty is finding LED's that "fire" sideways or thin ones that can be mounted "pointing-in". Also, keep in mind that EACH device must have it's OWN bias resistor - 1 resistor won't do it - the internal resistance of the lowest-value LED will illuminate and ignore the rest. Assuming a max of 20ma for each LED, one can use fairly low-value resistors (for each), with a MASTER biasing resistor for overall illumination (using a pot).

Power will come from the 15vdc line that presently goes to the bulb-board. I used those bulbs in avionics, and they were ALWAYS installed in a conservatively rated situation, as even at 12vdc, they don't last very long, and at 15vdc... well, you figure it out.

It's not something I'm burning to do, but when I pull the radio off the shelf, it'll get made.

Tom - WØEAJ

942. Re: [Racal6790GM] LED lighting replacement.

Yahoo group: Racal6790GM
Date: 2008-01-27 00:52:14 UTC
From: gewingerd@netzero.com
Topic: 934 Message: 942
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

943. 6790/GM LED board

Yahoo group: Racal6790GM
Date: 2008-01-27 01:32:18 UTC
From: TC Dailey
Topic: 943 Message: 943

Gary,

Having had the front section apart (without directions), I know what it all looks like (the directions were spot-on), but do you use the original board, or make a new one? Any pic avail?

Thanks a bunch

Tom - WØEAJ

944. Re: [Racal6790GM] 6790/GM LED board

Yahoo group: Racal6790GM
Date: 2008-01-27 01:44:38 UTC
From: gewingerd@netzero.com
Topic: 943 Message: 944

A new PC card with LED's and resistors as a kit for $50.00 plus shipping. The LED's are a T1 type and it is advised that the ring on the LED's is removed with a dremel tool to give the board a better fit in the front panel.

Thanks,
Gary

_____
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http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4vDe4fwQprrLocMkbBsA1Wx9xIdhWYcweVKyqGyR9dBqxEpb/

945. Re: [Racal6790GM] 6790/GM LED board

Yahoo group: Racal6790GM
Date: 2008-01-27 01:49:22 UTC
From: gewingerd@netzero.com
Topic: 943 Message: 945
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

946. Re: [Racal6790GM] 6790/GM LED board

Yahoo group: Racal6790GM
Date: 2008-01-27 01:54:39 UTC
From: TC Dailey
Topic: 943 Message: 946

Ahhh... and the illumination is just fine, eh? I wondered about the directivity of this type, but I notice that you've put 'em on front AND back - novel solution.

I'll darned sure keep that in mind, as having the board already done is certainly a biggie on my parade.

Very cool...

Tom

947. Re: [Racal6790GM] 6790/GM LED board

Yahoo group: Racal6790GM
Date: 2008-01-27 01:58:14 UTC
From: gewingerd@netzero.com
Topic: 943 Message: 947

Tom,

LED's on one side and the resistors on the back.

Thanks,
Gary

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http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tK0Sw9URCD1X2BLPluceQ7AiA5cWFcj43VxoVTEQEQmYzvD/

948. Can't recognize add'l filters on A-4 Board.

Yahoo group: Racal6790GM
Date: 2008-02-07 00:34:14 UTC
From: larry.mcgee20
Topic: 948 Message: 948

Hello to the group. I have a replacement board for my 6790GM that recognizes the USB/LSB Filter bit will not recognize other Good crystal filters that I plug in.
When I got to USB, everything is fine, when I go to LSB, everything is fine. When I go to AM or CW, the Mode LCD shows 20KHz.
I have looked for solder bridges & wire jumpers in the 6 open filter slots but have not seen any.
Is there someplace else I should be checking?
Thanks.
Larry
PS: I will make another post describing why I am trying to get this replacement board working.

949. Harsh audio output to phones or speaker.

Yahoo group: Racal6790GM
Date: 2008-02-07 00:46:10 UTC
From: larry.mcgee20
Topic: 949 Message: 949

Hello to the group.
I have a 6790GM that is loaded with filters, no faults, everything works but the audio output quality is horrible. I would call it harsh or raspy when you turn up the IF/AF controls where you can hear it from a few feet away from the speaker and also is raspy in the headphones. Using the replacement A4 board as in my previous post, the USB/LSB as well as AM listening is just fine.
My question is, if I do the A4 alignment as described by Gary in the archives, should I expect that the raspy output will go away or should I be looking elsewhere?
I will have to get a plug for J4 & borrow a spectrum analzer to go through the alignment.
Thanks for your thoughts.
Larry

950. Re: [Racal6790GM] Can't recognize add'l filters on A-4 Board.

Yahoo group: Racal6790GM
Date: 2008-02-07 00:37:16 UTC
From: FRANCIS CARCIA
Topic: 948 Message: 950

Check the control signals to the diode switches near the filters to see if they change. I think you have to run bite to input new filters....but Gary is the expert.

"larry.mcgee20" <lrmagoo@...> wrote: Hello to the group. I have a replacement board for my 6790GM that
recognizes the USB/LSB Filter bit will not recognize other Good crystal
filters that I plug in.
When I got to USB, everything is fine, when I go to LSB, everything is
fine. When I go to AM or CW, the Mode LCD shows 20KHz.
I have looked for solder bridges & wire jumpers in the 6 open filter
slots but have not seen any.
Is there someplace else I should be checking?
Thanks.
Larry
PS: I will make another post describing why I am trying to get this
replacement board working.

951. Re: [Racal6790GM] Can't recognize add'l filters on A-4 Board.

Yahoo group: Racal6790GM
Date: 2008-02-07 10:29:29 UTC
From: gewingerd@netzero.com
Topic: 948 Message: 951

Larry,

Try the forced filter routine first. This should put the filters in correct order. Distorted audio can be the alignment. Put the receiver in AGC fast and MAN at the same time and adjust the IF knob on the front of the receiver to see if the problem goes away, if it does then the A4 needs aligned.

R-2174 FORCED FILTER OPERATION
1. ENTER FORCED FILTER MODE BY PRESSING (AND HOLDING) THE LOCK KEYSWITCH , THEN MOMENTARILY PRESS THE ISB U/L KEYSWITCH. RELEASE BOTH. (THE AUX INDICATOR SHOULD ILLUMINATE ON THE AUXILIARY DISPLAY INDICATING FORCED FILTER MODE IS ACTIVE).

2. ENTER THE DESIRED FILTER DISPLAY VALUES. THE FILTER VALUES ARE ENTERED IN ASCENDING FILTER POSITION ORDER, 1-7. (NOTE THAT A MAXIMUM OF 5 SYMMETRICAL, 1 LSB, AND 1 USB FILTERS MAY BE ENTERED. FEWER MAY BE ENTERED, DEPENDING ON THE FILTER HARDWARE CONFIGURATION). BLANK FILTER SLOTS SHOULD BE ENTERED SIMPLY BY PRESSING ENTER, TO MOVE PAST THE SLOT.

A. SYMMETRICAL FILTERS: PRESS NUMERIC KEYPAD SWITCHES FOR FILTER VALUES, IN 100 Hz RESOLUTION STEPS. (FOR 400 Hz, PRESS “4". FOR 3.2 kHz, PRESS “3" THEN “2"). TERMINATE EACH FILTER ENTRY WITH ENTER.

B. USB FILTER: PRESS THE USB KEYSWITCH, TERMINATE WITH ENTER.

C. LSB FILTER: PRESS THE LSB KEYSWITCH, TERMINATE WITH ENTER.

D. NULL (BLANK) FILTER SLOT: TERMINATE WITH ENTER

3. TERMINATE FORCED FILTER MODE BY PRESSING THE ISB U/L KEYSWITCH. (NOTE THAT THE AUX INDICATOR EXTINGUISHES). NOTE THAT FORCED FILTER MODE WILL AUTOMATICALLY TERMINATE WITH THE 7th PRESSING OF THE ENTER, AS THIS WILL INDICATE TO THE RECEIVER THAT ALL FILTER SLOTS HAVE BEEN DEFINED. PRESSING ISB U/L EARLIER THAN THIS WILL TERMINATE FORCED FILTER MODE, LEAVING ALL UNDEFINED SLOTS IN THEIR ORIGINAL CONFIGURATION.

Gary E. Wingerd

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http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4twIxrr13JniPHUgnqlbndlyoPvR2nONVR2DGaFq6UBeWRWp/

952. Re: [Racal6790GM] Harsh audio output to phones or speaker.

Yahoo group: Racal6790GM
Date: 2008-02-07 10:36:21 UTC
From: gewingerd@netzero.com
Topic: 949 Message: 952

Larry,

Just another note if the receiver has the RF amp installed it might be a AT&T receiver with a 4 ohm transformer mounted to the RF amp. The A4 cards are different because it has only 2 AGC settings so the A4 needs a couple of resistors installed , realigned and remove the extra transformer and patch or replace the output cable from the A4 card.
I have seen 3 of these receivers in the last week. Only 95 were ever made and I have only fixed less than 20.

Thanks,
Gary

953. RE: [Racal6790GM] Harsh audio output to phones or speaker.

Yahoo group: Racal6790GM
Date: 2008-02-07 13:18:59 UTC
From: Carcia, Francis A HS
Topic: 949 Message: 953

Check out the Dallas files in Kongsford for a good audio / AGC mod

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of larry.mcgee20
Sent: Wednesday, February 06, 2008 7:46 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Harsh audio output to phones or speaker.

Hello to the group.
I have a 6790GM that is loaded with filters, no faults, everything
works but the audio output quality is horrible. I would call it harsh
or raspy when you turn up the IF/AF controls where you can hear it from
a few feet away from the speaker and also is raspy in the headphones.
Using the replacement A4 board as in my previous post, the USB/LSB as
well as AM listening is just fine.
My question is, if I do the A4 alignment as described by Gary in the
archives, should I expect that the raspy output will go away or should
I be looking elsewhere?
I will have to get a plug for J4 & borrow a spectrum analzer to go
through the alignment.
Thanks for your thoughts.
Larry

954. Re: [Racal6790GM] Harsh audio output to phones or speaker.

Yahoo group: Racal6790GM
Date: 2008-02-07 21:09:50 UTC
From: lrmagoo@att.net
Topic: 949 Message: 954

Hello again Gary,
I hate to be such a pain, but I am wondering if you had earlier sent more information regarding the poor "raspy" output to headphones or speaker... you start this posting "Just another note..." which made me wonder if you had posted more information before posting this additional info about the output transformer impedance.

My board with the "raspy" output has one transformer stamped 8535 in the T1 position.

My original question was if I did the A4/A7/A8 alignment, would that improve the "raspy" output or should I look someplace else on A4? I have to borrow a spectrum analyzer & get a plus for A4J1 before I can do the alignment.

Thanks,
Larry

-------------- Original message from "gewingerd@..." <gewingerd@...>: --------------

> Larry,
>
> Just another note if the receiver has the RF amp installed it might be a AT&T
> receiver with a 4 ohm transformer mounted to the RF amp. The A4 cards are
> different because it has only 2 AGC settings so the A4 needs a couple of
> resistors installed , realigned and remove the extra transformer and patch or
> replace the output cable from the A4 card.
> I have seen 3 of these receivers in the last week. Only 95 were ever made and I
> have only fixed less than 20.
>
> Thanks,
> Gary
>

955. rx comparison

Yahoo group: Racal6790GM
Date: 2008-02-07 22:14:20 UTC
From: davideberrone
Topic: 955 Message: 955

Hello. I am considering a receiver upgrade and am interested about comparison of RACAL 6790 GM to other receivers. I do have a ICOM R 8500 with RF System DX-One antenna and I would like to switch to a professional rx but at an affordable price. Is the 6790 the winner competitor today vs for example JRC NRD 425, and other serious amateur rx of today, including rx with dsp technology? If yes, Why? Thank you.

Davide - Italy

956. Re: [Racal6790GM] rx comparison

Yahoo group: Racal6790GM
Date: 2008-02-08 00:23:38 UTC
From: lrmagoo@att.net
Topic: 955 Message: 956

Hello Davide,
I would like to offer my thoughts. I too was looking for a "professional" receiver and became intrigued with the 6790GM.

I have to ask what you are expecting when you turn on a professional receiver? AM reception would be no different than ICOM/JRC. USB/LSB would be no different. CW with the narrow filters (100Hz & 400Hz) is fun to play with with a 1Hz tuning resolution, but with the normal loss on signal getting through.

I have a Kenwood R2000 & a TenTec 325 that I think are better - I haven't really done a side by side comparison, but they deliver very good listening audio.

The most important thing for you to consider is where would you purchase you 6790GM. When they were new, all was great. There are problems that are now evident that will happen to all 14,000 of these receivers. The LCD readouts become blurred. As different stages age, they stop performing and will need repair by someone who knows the product (ie,Gary W. in this group. He has aftermarket fixes for the edge lighting of the LCDs. New LCDs for replacing blurry ones, a board kit to increase the signal gain in a front end section, etc.) If you could buy one from a known business and it is all up to spec & guaranteed by the selling business, it might be one to buy. If you buy one on-line such as eBay, you won't get one without some problems, no matter what the seller says... they end up selling as-is.

I have 4 of the eBay $ 500.00 specials right now. If I am lucky, I may get 2 of them up and running by swapping out boards & parts.

Be cautious.

Larry McGee

--------------- Original message from "davideberrone" <davideberrone@...>: ---------------

Hello. I am considering a receiver upgrade and am interested about
comparison of RACAL 6790 GM to other receivers. I do have a ICOM R
8500 with RF System DX-One antenna and I would like to switch to a
professional rx but at an affordable price. Is the 6790 the winner
competitor today vs for example JRC NRD 425, and other serious amateur
rx of today, including rx with dsp technology? If yes, Why? Thank you.

Davide - Italy

957. RE: [Racal6790GM] Harsh audio output to phones or speaker.

Yahoo group: Racal6790GM
Date: 2008-02-08 00:39:53 UTC
From: lrmagoo@att.net
Topic: 949 Message: 957

Hello,
I am not familiar with Kongsford to look for Dallas files. Could you give me a web address to connect with it?
Thanks,
larry

---------- Original message from "Carcia, Francis A HS" <francis.carcia@...>:

Check out the Dallas files in Kongsford for a good audio / AGC mod

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of larry.mcgee20
Sent: Wednesday, February 06, 2008 7:46 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Harsh audio output to phones or speaker.

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I will have to get a plug for J4 & borrow a spectrum analzer to go through the alignment.
Thanks for your thoughts.
Larry

958. Re: [Racal6790GM] rx comparison

Yahoo group: Racal6790GM
Date: 2008-02-08 01:36:16 UTC
From: K0DAN
Topic: 955 Message: 958

I think you're giving the RA6790GM short shrift. In terms of audio quality (all modes), stability, selectivity, and sensitivity, the 6790GM's performance is outstanding.

The 6790GM is not a ham receiver (but it does make for a great aux receiver in the hamshack). No passband tuning, noise blanker, DSP, notch filter, etc. Not what it was designed to do.

As with other gear, some units have problems, others don't. In other posts you mention problems with the 6790's you own...sorry you're having troubles but, but that's not a fair condemnation of the entire population of these radios! This is like comparing cars....most will get you where you're going, but they all will do so differenntly.

Your warning to "be cautious" is right on...especially when buying a pig in the poke from the auction people.

GL es 73

Dan

----- Original Message -----
From: lrmagoo@...
To: Racal6790GM@yahoogroups.com
Sent: Thursday, February 07, 2008 6:23 PM
Subject: Re: [Racal6790GM] rx comparison

Hello Davide,
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Be cautious.

Larry McGee

---------- Original message from "davideberrone" <davideberrone@...>: ----------

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Davide - Italy

959. Re: [Racal6790GM] rx comparison

Yahoo group: Racal6790GM
Date: 2008-02-08 02:52:26 UTC
From: lrmagoo@att.net
Topic: 955 Message: 959

Hello Dan,
Thanks for your reply. I was surprised as I posted it as Reply which I thought would only go to Davide.
I did not post it as Reply All. I called up the Racal Group on Yahoo and see that several of the last few days postings to an individual were broadcast to the group. Am I wrong in thinking that Reply only goes only to the sender?? Your reply to me went to the group (one on 13 new messages, I think) So this is in a way to test the Reply vs. Reply All function. As I said to Davide, what is he expecting when he turns on the receiver. All the things you said are true from a good receiver. There are problems that can develope and are not easy fixes unless you are a real
73's Larry KF9E

---------- Original message from "K0DAN" <k0dan@...>: ----------

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Your warning to "be cautious" is right on...especially when buying a pig in the poke from the auction people.

GL es 73

Dan

----- Original Message -----
From: lrmagoo@...
To: Racal6790GM@yahoogroups.com
Sent: Thursday, February 07, 2008 6:23 PM
Subject: Re: [Racal6790GM] rx comparison

Hello Davide,
I would like to offer my thoughts. I too was looking for a "professional" receiver and became intrigued with the 6790GM.

I have to ask what you are expecting when you turn on a professional receiver? AM reception would be no different than ICOM/JRC. USB/LSB would be

no different. CW with the narrow filters (100Hz & 400Hz) is fun to play with with a 1Hz tuning resolution, but with the normal loss on signal getting through.

I have a Kenwood R2000 & a TenTec 325 that I think are better - I haven't really done a side by side comparison, but they deliver very good listening audio.

The most important thing for you to consider is where would you purchase you 6790GM. When they were new, all was great. There are problems that are now evident that will happen to all 14,000 of these receivers. The LCD readouts become blurred. As different stages age, they stop performing and will need repair by someone who knows the product (ie,Gary W. in this group. He has aftermarket fixes for the edge lighting of the LCDs. New LCDs for replacing blurry ones, a board kit to increase the signal gain in a front end section, etc.) If you could buy one from a known business and it is all up to spec & guaranteed by the selling business, it might be one to buy. If you buy one on-line such as eBay, you won't get one without some problems, no matter what the seller says... they end up selling as-is.

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Be cautious.

Larry McGee

---------- Original message from "davideberrone" <davideberrone@...>: ----------

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Davide - Italy

960. RE: [Racal6790GM] rx comparison

Yahoo group: Racal6790GM
Date: 2008-02-07 23:16:27 UTC
From: tony dinkel
Topic: 955 Message: 960

The 6790 is an incredible receiver with switchable filters, great sensitivity, great dynamic range and audio output options like 600 ohm line level, a powerful speaker amplifier and headphone driver. But don't expect japanese general coverage class features, like IF shift and dsp. I suppose you could add a dsp if you wanted to, but I have never found the need to. I long for a squelch circuit on the FM and AM modes and miss the squelch system on the Motorola Micom series. Makes it much easier to listen to a low use ssb channel. If I ever get to build my vhf, uhf and microwave band converters it will be my tunable IF and then I will design the sq ckt.

Hope this helps,

td
wb6mie

961. Re: rx comparison

Yahoo group: Racal6790GM
Date: 2008-02-08 00:50:31 UTC
From: Graham
Topic: 955 Message: 961

People say that about the 20 year old Ford I run ! , but its got a clever 40/60 split wheel drive sytem, 24v 245 Bhp 3 Ltr V6 and is kind a fun to drive .totally none standard . and like's spare parts ...

The RX sort of follows I suppose, when it works it works very well and when it dont ... you become a expert in 20 yesr old technology ... just you miss out the oily hand bit ..

G ..

--- In Racal6790GM@yahoogroups.com, lrmagoo@... wrote:
>
> Hello Davide,
> I would like to offer my thoughts. I too was looking for a "professional" receiver and became intrigued with the 6790GM.
>
> I have to ask what you are expecting when you turn on a professional receiver? AM reception would be no different than ICOM/JRC. USB/LSB would be no different. CW with the narrow filters (100Hz & 400Hz) is fun to play with with a 1Hz tuning resolution, but with the normal loss on signal getting through.
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> I have a Kenwood R2000 & a TenTec 325 that I think are better - I haven't really done a side by side comparison, but they deliver very good listening audio.
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> The most important thing for you to consider is where would you purchase you 6790GM. When they were new, all was great. There are problems that are now evident that will happen to all 14,000 of these receivers. The LCD readouts become blurred. As different stages age, they stop performing and will need repair by someone who knows the product (ie,Gary W. in this group. He has aftermarket fixes for the edge lighting of the LCDs. New LCDs for replacing blurry ones, a board kit to increase the signal gain in a front end section, etc.) If you could buy one from a known business and it is all up to spec & guaranteed by the selling business, it might be one to buy. If you buy one on-line such as eBay, you won't get one without some problems, no matter what the seller says... they end up selling as-is.
>
> I have 4 of the eBay $ 500.00 specials right now. If I am lucky, I may get 2 of them up and running by swapping out boards & parts.
>
> Be cautious.
>
> Larry McGee

>
>
>
>
>
> -------------- Original message from "davideberrone"
<davideberrone@...>: --------------
>
> Hello. I am considering a receiver upgrade and am interested about
> comparison of RACAL 6790 GM to other receivers. I do have a ICOM R
> 8500 with RF System DX-One antenna and I would like to switch to a
> professional rx but at an affordable price. Is the 6790 the winner
> competitor today vs for example JRC NRD 425, and other serious
amateur
> rx of today, including rx with dsp technology? If yes, Why? Thank
you.
>
> Davide - Italy
>

962. RE: [Racal6790GM] Harsh audio output to phones or speaker.

Yahoo group: Racal6790GM
Date: 2008-02-08 02:54:52 UTC
From: FRANCIS CARCIA
Topic: 949 Message: 962

http://www.kongsfjord.no/dl/dl.htm

lrmagoo@... wrote:
Hello,
I am not familiar with Kongsford to look for Dallas files. Could you give me a web address to connect with it?
Thanks,
larry

---------- Original message from "Carcia, Francis A HS" <francis.carcia@...>:

Check out the Dallas files in Kongsford for a good audio / AGC mod

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Sent: Wednesday, February 06, 2008 7:46 PM
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Subject: [Racal6790GM] Harsh audio output to phones or speaker.

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My question is, if I do the A4 alignment as described by Gary in the archives, should I expect that the raspy output will go away or should I be looking elsewhere?
I will have to get a plug for J4 & borrow a spectrum analzer to go through the alignment.
Thanks for your thoughts.
Larry

963. Re: [Racal6790GM] rx comparison

Yahoo group: Racal6790GM
Date: 2008-02-08 03:55:30 UTC
From: K0DAN
Topic: 955 Message: 963

Hi Larry, and I hope you didn't take my post as me attacking you, that was not my intention at all.

As to what happens when you hit the REPLY button on various reflectors...it seems to vary! Sometimes the TO filed is filled with the original post, and/or the reflector/list address. Sometimes it's the individual. I don't know what makes one list diefferent from another, but I try to preview the TO/CC/BCC fields in my email, as I have been embarassed before posting to the world something I thought was private.

As to the 6790, I hope you are able to salvage a couple good RX's out of your pool without having to spend big bucks. When properly equipped and aligned, the 6790GM is a marvelous receiver. I have been collecting RX's for many years and am starting to thin out my collection....I love them all, but am trying to thin out to just a few "must keeps" and the 6790GM will definitely be in that group.

Good luck and 73
Dan
K0DAN

----- Original Message -----
From: lrmagoo@...
To: Racal6790GM@yahoogroups.com
Sent: Thursday, February 07, 2008 8:52 PM
Subject: Re: [Racal6790GM] rx comparison

Hello Dan,

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73's Larry KF9E

-------------- Original message from "K0DAN" <k0dan@...>: --------------

I think you're giving the RA6790GM short shrift. In terms of audio quality
(all modes), stability, selectivity, and sensitivity, the 6790GM's
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GL es 73

Dan

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Larry McGee

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Davide - Italy

964. Re: [Racal6790GM] rx comparison

Yahoo group: Racal6790GM
Date: 2008-02-08 04:06:22 UTC
From: lrmagoo@att.net
Topic: 955 Message: 964

No problem cul

---------- Original message from "K0DAN" <k0dan@...>: ----------

Hi Larry, and I hope you didn't take my post as me attacking you, that was not my intention at all.

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Good luck and 73
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To: Racal6790GM@yahoogroups.com
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Be cautious.

Larry McGee

---------- Original message from "davideberrone" <davideberrone@...>: ----------

Hello. I am considering a receiver upgrade and am interested about comparison of RACAL 6790 GM to other receivers. I do have a ICOM R 8500 with RF System DX-One antenna and I would like to switch to a professional rx but at an affordable price. Is the 6790 the winner competitor today vs for example JRC NRD 425, and other serious amateur rx of today, including rx with dsp technology? If yes, Why? Thank you.

Davide - Italy

965. Re: [Racal6790GM] rx comparison

Yahoo group: Racal6790GM
Date: 2008-02-08 04:14:48 UTC
From: lrmagoo@att.net
Topic: 955 Message: 965

test

966. (no subject)

Yahoo group: Racal6790GM
Date: 2008-02-08 19:03:49 UTC
From: gewingerd@netzero.com
Topic: 966 Message: 966

Just saw this on EBAY!!!!!

RACAL RA1792 RA 1792 HF receiver HAM shortwave Item number: 130196419232

Gary

_____
Looking for insurance? Compare and save today. Click here.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tyWPT87mKzCp4iZlamyUevCGBEyk8TCjT2zXZCVEErwtSJj/

967. Re: [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2008-02-08 19:26:57 UTC
From: Dan Rae
Topic: 966 Message: 967

gewingerd@... wrote:

> Just saw this on EBAY!!!!!
>
> RACAL RA1792 RA 1792 HF receiver HAM shortwave Item number: 130196419232
>
>Gary
>_____
>
>
But be aware that new LC displays for this are not available for love or money, and the right hand one looks like it is failing. As such this is not that good a buy even at the starting price... In my humble opinion, unless you want it for parts...

Dan
who has 5 of them...

968. Re: [Racal6790GM]

Yahoo group: Racal6790GM
Date: 2008-02-08 19:37:26 UTC
From: lrmagoo@att.net
Topic: 968 Message: 968

Dan, Thanks for the heads up on the LCD. Larry

---------- Original message from Dan Rae <danrae@...>: ----------

> gewingerd@... wrote:
>
> > Just saw this on EBAY!!!!!
> >
> > RACAL RA1792 RA 1792 HF receiver HAM shortwave Item number: 130196419232
> >
> >Gary
> >_____
> >
> >
> But be aware that new LC displays for this are not available for love or
> money, and the right hand one looks like it is failing. As such this is
> not that good a buy even at the starting price... In my humble opinion,
> unless you want it for parts...
>
> Dan
> who has 5 of them...
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>

969. Re: [Racal6790GM] now 1792 on ebay

Yahoo group: Racal6790GM
Date: 2008-02-08 19:59:13 UTC
From: Dan Rae
Topic: 966 Message: 969

Dan Rae wrote:

>> Just saw this on EBAY!!!!!
>>
>>RACAL RA1792 RA 1792 HF receiver HAM shortwave Item number: 130196419232
>>
>>Gary
>>_____
>>
>>
>>
>>
>But be aware that new LC displays for this are not available for love or
>money, and the right hand one looks like it is failing. As such this is
>not that good a buy even at the starting price... In my humble opinion,
>unless you want it for parts...
>
>Dan
>who has 5 of them...
>
>
>
>

I will amplify that a bit. If it is fitted with the common GB filter set, however when asked the seller was not able to tell me the option number from the back, then these will transplant quite easily into a filterless 6790/GM, and this is one of the solutions I suggested for the recent poster. But 1792 A4 boards with filters sell for a lot less than $400 usually.

The GB filter set consists of, from back to front: LSB / USB / 300 Hz / 1 kHz / 3 or 3.2 kHz and 6 kHz, the last four all symmetrical. The GA set will not have the 3.2 sym, it does it by shifting the oscillators. For the ITT crystal filters, all widths need 47 pf on the input and 22 pF on the output.

The RF amp A1 is relatively easily fitted to the 6790/GM, but you will have to do some metal work to the rear panel. It is the one that is used in the US Racals.

It is possible to replace the LC displays with leds and I have done this once. It is not an exercise I would want to repeat. But it can be done :^)
73
Dan
ac6ao / g3ncr

970. RE: [Racal6790GM] now 1792 on ebay

Yahoo group: Racal6790GM
Date: 2008-02-08 20:43:27 UTC
From: Hunter Ellington
Topic: 966 Message: 970

With respect to the eBay listing, if I read one more seller saying "I don't know anything about these radios..." I am going to scream. It should be illegal for sellers to be that ignorant. There. My rant is over.

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@...

Quando omni flunkus, moritati. (When all else fails, play dead.)-Red Green

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Dan Rae
Sent: Friday, February 08, 2008 12:59 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] now 1792 on ebay

Dan Rae wrote:

>> Just saw this on EBAY!!!!!
>>
>>RACAL RA1792 RA 1792 HF receiver HAM shortwave Item number:
>>130196419232
>>
>>Gary
>>_____
>>
>>
>>
>>
>But be aware that new LC displays for this are not available for love
>or money, and the right hand one looks like it is failing. As such
>this is not that good a buy even at the starting price... In my humble

>opinion, unless you want it for parts...
>
>Dan
>who has 5 of them...
>

>
>
>
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It is possible to replace the LC displays with leds and I have done this once. It is not an exercise I would want to repeat. But it can be done :^)
73
Dan
ac6ao / g3ncr

Yahoo! Groups Links

971. Re: [Racal6790GM] now 1792 on ebay

Yahoo group: Racal6790GM
Date: 2008-02-09 03:48:12 UTC
From: toddroberts2001@aol.com
Topic: 966 Message: 971

In a message dated 2/8/2008 10:30:22 P.M. Eastern Standard Time,
hunter.ellington@... writes:
With respect to the eBay listing, if I read one more seller saying "I
don't know anything about these radios..." I am going to scream. It
should be illegal for sellers to be that ignorant. There. My rant is
over.

R. Hunter Ellington, Esq.
Shareholder

I understand where you are coming from! There are many cases though where I
am glad some people do take the time to list some of these items on eBay,
even if they don't know anything about them! Say for example somebody's uncle
passed away, he had a nice Racal receiver, nobody in the family knows anything
about it, but instead of throwing it away he lists it on eBay. It might be
just what a collector is looking for!
You are always taking a chance when you buy a used receiver on
eBay. If you are confident you can work on them and repair them, you can find
some great deals! Just spend what you are willing to risk.

73 Todd WD4NGG

**********Biggest Grammy Award surprises of all time on AOL Music.
(http://music.aol.com/grammys/pictures/never-won-a-grammy?NCID=aolcmp00300000002548)

972. Re: [Racal6790GM] now 1792 on ebay

Yahoo group: Racal6790GM
Date: 2008-02-09 06:02:36 UTC
From: gewingerd@netzero.com
Topic: 966 Message: 972

Take it a little easy on the guy listing these parts and radios on EBAY, his father was Earl Johnson a great ham and a dear friend that passed away last year. This is his son selling the stuff to settle his estate and like he says he knows nothing about the stuff.

The radio I got had every card bad but it has the RF amp and was a AT&T and is now fully working.

Gary

_____
Click here to find the satellite television package that meets your needs.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tvKJMz2EEDCq9UOW0ewQlBc2UsslEBDeLsuLpoXYkNrrzFX/

973. RE: [Racal6790GM] now 1792 on ebay

Yahoo group: Racal6790GM
Date: 2008-02-09 05:19:40 UTC
From: Ron Ward
Topic: 966 Message: 973

Hi:
Would you please tell me about how you replaced the LCD displays with LEDs.
I have been thinking about doing the same thing using the "Black Magic"
system with a photo negative mask. Did you do this?

Any information would be helpful before I start.

Do you think others would be interested in this solution?

Thanks,
Ron Ward

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
Behalf Of Dan Rae
Sent: Friday, February 08, 2008 11:59 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] now 1792 on ebay

Dan Rae wrote:

>> Just saw this on EBAY!!!!!
>>
>>RACAL RA1792 RA 1792 HF receiver HAM shortwave Item number: 130196419232
>>
>>Gary
>>_____
>>
>>
>>
>>
>But be aware that new LC displays for this are not available for love or
>money, and the right hand one looks like it is failing. As such this is
>not that good a buy even at the starting price... In my humble opinion,
>unless you want it for parts...
>
>Dan
>who has 5 of them...
>
>
>
>
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set, however when asked the seller was not able to tell me the option
number from the back, then these will transplant quite easily into a
filterless 6790/GM, and this is one of the solutions I suggested for the

recent poster. But 1792 A4 boards with filters sell for a lot less than $400 usually.

The GB filter set consists of, from back to front: LSB / USB / 300 Hz / 1 kHz / 3 or 3.2 kHz and 6 kHz, the last four all symmetrical. The GA set will not have the 3.2 sym, it does it by shifting the oscillators. For the ITT crystal filters, all widths need 47 pf on the input and 22 pF on the output.

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It is possible to replace the LC displays with leds and I have done this once. It is not an exercise I would want to repeat. But it can be done :^)
73
Dan
ac6ao / g3ncr

Yahoo! Groups Links

974. RE: [Racal6790GM] now 1792 on ebay

Yahoo group: Racal6790GM
Date: 2008-02-09 05:25:28 UTC
From: Hunter Ellington
Topic: 966 Message: 974

I agree. My peeve is that the same guys sell radios year after year with the same disclosure. Wouldn't you think that pride alone would cause them to find out something about the goods they sell. But then again, you are correct about what you are willing to risk. I got lucky, I bought my 6790 on eBay and got one out of Los Alamos and it works splendidly. 73

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@...
<mailto:hunter.ellington@...>

Quando omni flunkus, moritati. (When all else fails, play dead.)-Red Green

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of toddroberts2001@...
Sent: Friday, February 08, 2008 8:48 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] now 1792 on ebay

In a message dated 2/8/2008 10:30:22 P.M. Eastern Standard Time, hunter.ellington@... <mailto:hunter.ellington%40gorrellgiles.com> writes:
With respect to the eBay listing, if I read one more seller saying "I don't know anything about these radios..." I am going to scream. It should be illegal for sellers to be that ignorant. There. My rant is over.

R. Hunter Ellington, Esq.
Shareholder

I understand where you are coming from! There are many cases though where I
am glad some people do take the time to list some of these items on eBay,
even if they don't know anything about them! Say for example somebody's uncle
passed away, he had a nice Racal receiver, nobody in the family knows

anything
about it, but instead of throwing it away he lists it on eBay. It might
be
just what a collector is looking for!
You are always taking a chance when you buy a used receiver on
eBay. If you are confident you can work on them and repair them, you can
find
some great deals! Just spend what you are willing to risk.

73 Todd WD4NGG

**********Biggest Grammy Award surprises of all time on AOL Music.
(http://music.aol.com/grammys/pictures/never-won-a-grammy?NCID=aolcmp003
000000025
<http://music.aol.com/grammys/pictures/never-won-a-grammy?NCID=aolcmp003
000000025>
48)

975. Re: [Racal6790GM] now 1792 on ebay

Yahoo group: Racal6790GM
Date: 2008-02-09 15:38:20 UTC
From: Dan Rae
Topic: 966 Message: 975

gewingerd@... wrote:

> Take it a little easy on the guy listing these parts and radios on EBAY, his father was Earl Johnson a great ham and a dear friend that passed away last year. This is his son selling the stuff to settle his estate and like he says he knows nothing about the stuff.
>
> The radio I got had every card bad but it has the RF amp and was a AT&T and is now fully working.
>
>
It's a pity he didn't say as much in that case. I knew and liked Earle
a lot. I would certainly have bid you up a lot for the /GM had I known
where the money would go to...

w4ewj r.i.p. A great guy and amazing cw operator.

Dan

976. Re: now 1792 on ebay

Yahoo group: Racal6790GM
Date: 2008-02-09 18:13:48 UTC
From: Jon Iza
Topic: 966 Message: 976

Folks,
You may find a solution for a failing display on the 1792 at this location:
http://www.radiosurplus.it/kitRacal.htm
I have nothing to do with them, other than being a satisfied customer,
but not of this item.
And, yes, A4 boards with filters are not that expensive. I do have one
extra :-) :-)
Be well
jon, ea2sn

977. Re: [Racal6790GM] now 1792 on ebay

Yahoo group: Racal6790GM
Date: 2008-02-10 02:47:56 UTC
From: Mil Radman
Topic: 966 Message: 977

Gary,
I'm sorry to hear Earle passed away. I thought something had happened because I didn't see his listing on Ebay anymore. In fact, I bought my RA6790/GM from Earle a couple of years ago. He was very helpful when I had questions to ask. I always looked to see what kind of receivers he always had for sale. He had some nice stuff.
The one I got from Earle had all seven filters in them and I bought it for a good price. He knew what a radio was worth and didn't want an enormous price for them. I always thought Earle sold what was a good market value for his stuff.

John

"gewingerd@..." <gewingerd@...> wrote:
Take it a little easy on the guy listing these parts and radios on EBAY, his father was Earl Johnson a great ham and a dear friend that passed away last year. This is his son selling the stuff to settle his estate and like he says he knows nothing about the stuff.

The radio I got had every card bad but it has the RF amp and was a AT&T and is now fully working.

Gary

Click here to find the satellite television package that meets your needs.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tvKJMz2EEDCq9UOW0ewQlBc2UsslEBDeLsuLpoXYkNrrzFX/

Yahoo! Groups Links

Never miss a thing. Make Yahoo your homepage.

978. Re: [Racal6790GM] rx comparison

Yahoo group: Racal6790GM
Date: 2008-02-10 03:22:13 UTC
From: TC Dailey
Topic: 955 Message: 978

----- Original Message -----
From: davideberrone
To: Racal6790GM@yahoogroups.com
Sent: Thursday, February 07, 2008 3:14 PM
Subject: [Racal6790GM] rx comparison

Hello. I am considering a receiver upgrade and am interested about comparison of RACAL 6790 GM to other receivers. I do have a ICOM R 8500 with RF System DX-One antenna and I would like to switch to a professional rx but at an affordable price. Is the 6790 the winner competitor today vs for example JRC NRD 425, and other serious amateur rx of today, including rx with dsp technology? If yes, Why? Thank you.

Davide - Italy

979. RE: [Racal6790GM] now 1792 on ebay

Yahoo group: Racal6790GM
Date: 2008-02-09 16:29:38 UTC
From: Hunter Ellington
Topic: 966 Message: 979

My comment was not necessarily case specific, but rather aimed at those "professional sellers" who just seem to sell radio related stuff year after year with the tag line "I don't know anything about this stuff". The specific guy seemed to fall in that category because he appeared to be parting out gear. As to him I withdraw my comment, but the others, I just wish they would take a pass on radio gear and let people who know something about the equipment sell it on uPay. Just my middle-aged crankiness showing. 73. Long live 6790's

R. Hunter Ellington, Esq.
Shareholder

Gorrell Giles PC
1331 Seventeenth Street, Suite 1000
Denver, Colorado 80202
(303) 996-6585 Direct
(303) 996-2680 Fax
hunter.ellington@...

Quando omni flunkus, moritati. (When all else fails, play dead.)-Red Green

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Dan Rae
Sent: Saturday, February 09, 2008 8:38 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] now 1792 on ebay

gewingerd@... wrote:

> Take it a little easy on the guy listing these parts and radios on EBAY, his father was Earl Johnson a great ham and a dear friend that passed away last year. This is his son selling the stuff to settle his estate and like he says he knows nothing about the stuff.
>
> The radio I got had every card bad but it has the RF amp and was a AT&T and is now fully working.
>
>

It's a pity he didn't say as much in that case. I knew and liked Earle a lot. I would certainly have bid you up a lot for the /GM had I known where the money would go to...

w4ewj r.i.p. A great guy and amazing cw operator.

Dan

Yahoo! Groups Links

980. RE: [Racal6790GM] now 1792 on ebay

Yahoo group: Racal6790GM
Date: 2008-02-14 13:11:32 UTC
From: mstangelo@comcast.net
Topic: 966 Message: 980

When I was a teenager "many moons ago" in the late 1960's I looked forward to my prilgrimages to the remaining surplus houses in downtown Manhattan. One of my favorite haunts was G&G radio. I remember asking the owner if a piece of equipment worked or if it was suitable for ham radio conversion. I remember him remarking - "Kid, I just buy and sell the stuff; I don't use it". It was one of best pieces of advice I ever received when dealing with surplus..

A major disadvantage of online auctions is that you cannot touch and smell the equipment to appraise it's potential. I wish more surplus would show up at swapmeets.

Regards,

Mike N2MS

---------- Original message ----------
From: "Hunter Ellington" <hunter.ellington@...>

> My comment was not necessarily case specific, but rather aimed at those
> "professional sellers" who just seem to sell radio related stuff year
> after year with the tag line "I don't know anything about this stuff".
> The specific guy seemed to fall in that category because he appeared to
> be parting out gear. As to him I withdraw my comment, but the others, I
> just wish they would take a pass on radio gear and let people who know
> something about the equipment sell it on uPay. Just my middle-aged
> crankiness showing. 73. Long live 6790's
>
>
> R. Hunter Ellington, Esq.
> Shareholder

981. Looking for parts of the housing.....

Yahoo group: Racal6790GM
Date: 2008-02-16 14:04:55 UTC
From: kenwood1988
Topic: 981 Message: 981

Hello together,

I´m looking for the upper and lower metal sheet for the housing of the receiver - the ones of my 6790 are missing....

hope you can help me,
thanks a lot,

Jens

982. Remote Help

Yahoo group: Racal6790GM
Date: 2008-02-16 22:14:29 UTC
From: pidxr
Topic: 982 Message: 982

I am trying to use my RA6790/GM remote using the W6GER software. I can control the receiver using a terminal program so I am connected OK. However, the W6GER software asks for a receiver ID. Can someone tell me what this is or where/how I determine it.

Thanks

Mike
K7PI

983. Re: [Racal6790GM] Remote Help

Yahoo group: Racal6790GM
Date: 2008-02-17 06:07:29 UTC
From: gewingerd@netzero.com
Topic: 982 Message: 983

Mike,

I think this will help!

RS232 Connector Information for A6A1J2 That Mates With A6A1J1

PIN FUNCTION

A SYSTEM GROUND
B DATA OUT A
C DATA OUT GROUND
D DATA OUT B
E GROUND
F DATA IN A
G DATA IN GROUND
H DATA IN B
J GROUND
K RECEIVER NUMBER D1-1
L RECEIVER NUMBER D1-2
M RECEIVER NUMBER D1-4
N RECEIVER NUMBER D1-8
P RECEIVER NUMBER D2-1
R RECEIVER NUMBER D2-2
S RECEIVER NUMBER D2-4
T RECEIVER NUMBER D2-8
U / PARITY SELECT
V EVEN / ODD PARITY
W BAUD RATE B4
X BAUD RATE B3
Y BAUD RATE B2
Z BAUD RATE B1
a GROUND
b GROUND
c SYSTEM GROUND

GARY E. WINGERD
GEW Electronic Repair Service
9107 JORDAN RD.
FAIRPLAY, MD. 21733
gewingerd@...
gewingerd@netzero.net

Click for a credit repair consultation, raise your FICO score.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4txjuOcNH7tIgf7VpEVLwGmXwlR4QkJGP8f8Q
XNbS6krbfGJ/

984. Re: Remote Help

Yahoo group: Racal6790GM
Date: 2008-02-17 11:55:15 UTC
From: Graham
Topic: 982 Message: 984

--- In Racal6790GM@yahoogroups.com, "pidxr" <bipi@...> wrote:
>
> I am trying to use my RA6790/GM remote using the W6GER software. I
> can control the receiver using a terminal program so I am connected
> OK. However, the W6GER software asks for a receiver ID. Can
someone
> tell me what this is or where/how I determine it.
>
> Thanks
>
> Mike
> K7PI
>

Mike,

I used that prog quite a while ago, looking at the rx connector I have 5 pins in use , not sure which is linked to which, but i think there are details of required connections in the help files ? at the moment I cannot think where ealse the info came from .may be the rx manual .. other than that, there was the need to open or close a link on the IO board to get it working ....

....., the rx address is part of the remote 'block adress' system where you can command more than one set at the same time , I no longer have the software installed , so i cannot 'have a look' ..

By chance, I did get involved in some 'fixes' when the prog first came out , It was sending a 'agc reset' when it updated the rx info , the 'rx' control word was miss configured and the software had a 'work a round' to mask the problem, which I should think has been removed on the last relase and the 'word' changed

Thers some nice features in the package, the waterfall scan was usefull , I thought a drop down 'pick list' of previous frequencys and mode would be handy if you clicked the display to speed up channel hopping

hope that helps ,

G ..

985. Re: Remote Help

Yahoo group: Racal6790GM
Date: 2008-02-17 13:43:13 UTC
From: gldinnc
Topic: 982 Message: 985

```
--- In Racal6790GM@yahoogroups.com, "Graham" <g0nbd@...> wrote:
>
> --- In Racal6790GM@yahoogroups.com, "pidxr" <bipi@> wrote:
> >
> > I am trying to use my RA6790/GM remote using the W6GER software. I
> > can control the receiver using a terminal program so I am connected
> > OK. However, the W6GER software asks for a receiver ID. Can
> someone
> > tell me what this is or where/how I determine it.
> >
> > Thanks
> >
> > Mike
> > K7PI
> >
>
```

Mike,

If you are able to control the Racal with a terminal control program I think you must be sending commands that all start with "$xx". My guess would be that whatever "xx" is will be the receiver ID. "xx" for each radio is determined by how J1 has been configured - if you need to find out it is explained in the manual starting a page 2-22.

Gordon, KA2NLM

986. 6790/GM on ebay

Yahoo group: Racal6790GM
Date: 2008-02-19 16:36:07 UTC
From: bobbetts06
Topic: 986 Message: 986

Hello everyone:
Just interested, does anyone have any experience with this seller on ebay?
item: 220201560348
Thank you,
Bob

987. Re: [Racal6790GM] 6790/GM on ebay

Yahoo group: Racal6790GM
Date: 2008-02-19 16:53:07 UTC
From: TC Dailey
Topic: 986 Message: 987

I haven't heard of him, but I have a good 6790/GM that you can have RIGHT NOW for $625... plus whatever shipping might be - I use the UPS catalytic-pillow stuff, and it's very reliable - none of that wretched bubblepack stuff. Oh, and mine WORKS & I have a bound manual.

Tom

988. Re: [Racal6790GM] 6790/GM on ebay

Yahoo group: Racal6790GM
Date: 2008-02-19 16:58:09 UTC
From: Dan Rae
Topic: 986 Message: 988

bobbetts06 wrote:

>Hello everyone:
>Just interested, does anyone have any experience with this seller on
>ebay?
>
>

I have bought test gear from him in the past, so have nearly two
thousand five hundred others... What is your concern about the /GM?
It looks like a late one. It works seemingly, but only has one filter
fitted, however it is the one that is hardest to find...

Dan
ac6ao

989. Re: [Racal6790GM] 6790/GM on ebay

Yahoo group: Racal6790GM
Date: 2008-02-19 17:07:47 UTC
From: Phoenix0754@aol.com
Topic: 986 Message: 989

I have had very good experience with this outfit. I have purchased several Watkin Johnson receivers from them and they have always been as advertised. Communications was also good with this seller.

Regards, George Michael

In a message dated 2/19/2008 11:36:50 A.M. Eastern Standard Time, rwbetts@... writes:

Hello everyone:
Just interested, does anyone have any experience with this seller on ebay?
item: 220201560348
Thank you,
Bob

**********Ideas to please picky eaters. Watch video on AOL Living. (http://living.aol.com/video/how-to-please-your-picky-eater/rachel-campos-duffy/2050827?NCID=aolcmp00300000002598)

990. Re: [Racal6790GM] Re: Remote Help

Yahoo group: Racal6790GM
Date: 2008-02-17 17:09:35 UTC
From: Leigh Sedgwick
Topic: 982 Message: 990

Gordon,

You are right on the money...Radio ID = address line number . I just didn't make the connection. Software works great now. Thanks to all that responded for your help and time.

Happy Trails

Mike, K7PI

----- Original Message -----
From: "gldinnc" <GLDuff@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Sunday, February 17, 2008 5:43 AM
Subject: [Racal6790GM] Re: Remote Help

> --- In Racal6790GM@yahoogroups.com, "Graham" <g0nbd@...> wrote:
>>
>> --- In Racal6790GM@yahoogroups.com, "pidxr" <bipi@> wrote:
>> >
>> > I am trying to use my RA6790/GM remote using the W6GER software. I
>> > can control the receiver using a terminal program so I am connected
>> > OK. However, the W6GER software asks for a receiver ID. Can
>> someone
>> > tell me what this is or where/how I determine it.
>> >
>> > Thanks
>> >
>> > Mike
>> > K7PI
>> >
>>
>
> Mike,
>
> If you are able to control the Racal with a terminal control program I
> think you must be sending commands that all start with "$xx". My
> guess would be that whatever "xx" is will be the receiver ID. "xx"
> for each radio is determined by how J1 has been configured - if you
> need to find out it is explained in the manual starting a page 2-22.
>
> Gordon, KA2NLM
>
>
>
>

>
>
> Yahoo! Groups Links
>
>
>

991. Re: [Racal6790GM] 6790/GM on ebay

Yahoo group: Racal6790GM
Date: 2008-02-19 18:34:14 UTC
From: Robert W. Betts
Topic: 986 Message: 991

Hello All:
Thanks to everyone who responded.
I appreciate it.
Bob

Phoenix0754@... wrote:
I have had very good experience with this outfit. I have purchased several Watkin Johnson receivers from them and they have always been as advertised. Communications was also good with this seller.

Regards, George Michael

In a message dated 2/19/2008 11:36:50 A.M. Eastern Standard Time, rwbetts@... writes:
Hello everyone:
Just interested, does anyone have any experience with this seller on
ebay?
item: 220201560348
Thank you,
Bob

Delicious ideas to please the pickiest eaters. Watch the video on AOL Living.

http://www.bobsamerica.com

992. Deaf 6790GM comon problem?

Yahoo group: Racal6790GM
Date: 2008-02-22 02:20:49 UTC
From: mgabech
Topic: 992 Message: 992

My 6790GM has gone deaf again last time I just replaced the A2
board and it corrected. This was at no cost since I had a dead
6790GM for spare parts. I left the antenna connect and I think it
might of took a static charge both times. What is the common compoent
that usually is the cause of this. If any one has suggestion please
let me know, I do notices to Q3 AND Q4 have a ground lead to top of
the transitor can tops.plate.. are these FET that go out.
Let me know if you have clue.

regards
mgabech@...

993. Re: [Racal6790GM] Deaf 6790GM comon problem?

Yahoo group: Racal6790GM
Date: 2008-02-22 10:40:05 UTC
From: gewingerd@netzero.com
Topic: 992 Message: 993

"I do notices to Q3 AND Q4 have a ground lead to top of
the transistor can tops.plate.. are these FET that go out."

The FET's are inside the mixer box and that is the output of the transistors to the mixer box. I carry a replacement FET IC Upgrade KIT with Instructions and all the parts required for $100.00 per KIT plus shipping.

thanks,
Gary

_____
Enter for Your Chance to WIN
TotalBeauty.com is giving away a trip to NYC plus lots of beauty produ
http://thirdpartyoffers.netzero.net/TGL2221/fc/JKFkuJkEEWR3UalN0YbmXc7LrTsNUr9UvTz8uSjS6FUsHtXxNLI5Fn/

994. Re: [Racal6790GM] Deaf 6790GM comon problem?

Yahoo group: Racal6790GM
Date: 2008-02-23 05:43:37 UTC
From: Marcel Bechtoldt
Topic: 992 Message: 994

So are you telling me that the FET IC is the common problem that goes out on these A2 boards? and the Upgrade Kit is beefer and as more protection or resistant to static charges killing the FET IC like the orignal.

Does the $100 pay for the FET IC and other parts that protect against static charges or is it just the IC. I had problem like this with a ICOM 756 pro and got BEV protection kit, that when the power is turn off it disconnect the antenna from the front end circuit.

Is shipping included in the $100.

Thanks 73

"gewingerd@..." <gewingerd@...> wrote: "I do notices to Q3 AND Q4 have a ground lead to top of
the transistor can tops.plate.. are these FET that go out."

The FET's are inside the mixer box and that is the output of the transistors to the mixer box. I carry a replacement FET IC Upgrade KIT with Instructions and all the parts required for $100.00 per KIT plus shipping.

thanks,
Gary

Enter for Your Chance to WIN
TotalBeauty.com is giving away a trip to NYC plus lots of beauty produ
http://thirdpartyoffers.netzero.net/TGL2221/fc/JKFkuJkEEWR3UalN0YbmXc7LrTsNUr9UvTz8uSjS6FUsHtXxNLI5Fn/

Yahoo! Groups Links

Looking for last minute shopping deals? Find them fast with Yahoo! Search.

995. RA6790/GM on eBay

Yahoo group: Racal6790GM
Date: 2008-02-25 00:25:43 UTC
From: larry.mcgee20
Topic: 995 Message: 995

Hello, Let's see how he does with this flip.
Radio-Mart won a receiver on Feb. 19 for $ 457.99 + shipping from VA to him in KY. That was item# 220201560348 posted by anainstr. Anainstr. showed the serial number 10122.
Today, Radio-Mart listed a 6790 that appears to be the same one (Black badge at lower left corner of front panel, distinctive piece of tape at middle of bottom back).
Larry

996. Re: [Racal6790GM] RA6790/GM on eBay

Yahoo group: Racal6790GM
Date: 2008-02-25 12:14:15 UTC
From: James Colbert
Topic: 995 Message: 996

Hey,

That plate next to the red 'Racal' looks suspicious: I can't make out what it says but it is covering up what should be original lettering reading 'RA 6790/GM'. (The serial number on mine is 9628.) The display sure doesn't look very bright and I don't see which filters are in it--and he should say. I had mine checked over by Gary Wingerd, the Racal tech and I have his software chips installed.
I'll be in the VA Hospital tomorrow. Wish me luck.
Jim

-----Original Message-----
>From: "larry.mcgee20" <lrmagoo@...>
>Sent: Feb 24, 2008 5:25 PM
>To: Racal6790GM@yahoogroups.com
>Subject: [Racal6790GM] RA6790/GM on eBay
>
>Hello, Let's see how he does with this flip.
>Radio-Mart won a receiver on Feb. 19 for $ 457.99 + shipping from VA to
>him in KY. That was item# 220201560348 posted by anainstr. Anainstr.
>showed the serial number 10122.
>Today, Radio-Mart listed a 6790 that appears to be the same one (Black
>badge at lower left corner of front panel, distinctive piece of tape at
>middle of bottom back).
>Larry
>
>

997. Re: [Racal6790GM] RA6790/GM on eBay

Yahoo group: Racal6790GM
Date: 2008-02-25 12:46:47 UTC
From: gandalfg8@aol.com
Topic: 995 Message: 997

In a message dated 25/02/2008 12:14:45 GMT Standard Time,
roxnit2@... writes:

That plate next to the red 'Racal' looks suspicious: I can't make out what i
t says but it is covering up what should be original lettering reading 'RA
6790/GM'. (The serial number on mine is 9628.) The display sure doesn't look
very bright and I don't see which filters are in it--and he should say. I had
mine checked over by Gary Wingerd, the Racal tech and I have his software
chips installed.

If it is the same one he just bought, both he and the previous seller quote
the single bandwidth as approx 3KHz.
Seeing as how there's no 455KHz filters fitted, I'm assuming it'll have just
a 3KHz roofing filter.

regards

Nigel
GM8PZR

998. Re: [Racal6790GM] RA6790/GM on eBay

Yahoo group: Racal6790GM
Date: 2008-02-25 14:30:52 UTC
From: Dan Rae
Topic: 995 Message: 998

gandalfg8@... wrote:

> In a message dated 25/02/2008 12:14:45 GMT Standard Time,
> roxnit2@... writes:
>
> That plate next to the red 'Racal' looks suspicious:
>
That's just a label, it has no particular significance... It is indeed
the same radio.

> ---------------------
> If it is the same one he just bought, both he and the previous seller
> quote the single bandwidth as approx 3KHz.
> Seeing as how there's no 455KHz filters fitted, I'm assuming it'll
> have just a 3KHz roofing filter.
>
Nigel, it does have the one 3.24 kHz symmetrical 455 filter fitted, as
was pointed out by the original seller, and in the original discussion
of this radio. It will enable good SSB and the rest of the modes after a
fashion, and is the hardest of the plug in filters to find.

Otherwise it's just the usual hyperbole from him... Sometimes it
works, sometimes not; and ebay makes millions.

Cheers,

Dan
ac6ao

999. Re: [Racal6790GM] RA6790/GM on eBay

Yahoo group: Racal6790GM
Date: 2008-02-25 15:00:07 UTC
From: gandalfg8@aol.com
Topic: 995 Message: 999

In a message dated 25/02/2008 14:31:45 GMT Standard Time, danrae@...
writes:

Nigel, it does have the one 3.24 kHz symmetrical 455 filter fitted, as
was pointed out by the original seller, and in the original discussion
of this radio. It will enable good SSB and the rest of the modes after a
fashion, and is the hardest of the plug in filters to find.

Hi Dan

I missed it when I first looked and got the impression all slots were empty,
but did wonder why there was only room for six filters.....

whoops:-)

regards

Nigel
GM8PZR

1000. RE: [Racal6790GM] Deaf 6790GM comon problem?

Yahoo group: Racal6790GM
Date: 2008-02-22 12:36:37 UTC
From: Jon-FL
Topic: 1000 Message: 1000

MGA wrote:
My 6790GM has gone deaf again.....I left the antenna connect and I think it might of took a static charge both times.

If you are operating without one of this...
http://www.universal-radio.com/catalog/protect/1502.html
then it's the same thing as unprotected sex.

Get a surge arrestor , it's a condom for
your receiver.

Jon-FL StarChat IRC Network channels #wunclub and #monitor
..where the serious v2a/m8a/e3/e10/etc monitors hangout :)
(2x Icom IC-R75, Racal RA6790/GM, WJ-8716, BCD996T, AOR ar-8200-MK3,
GE Superadio III, t2fd)

1001. Re: Deaf 6790GM comon problem?

Yahoo group: Racal6790GM
Date: 2008-02-25 11:21:52 UTC
From: Graham
Topic: 992 Message: 1001

Sorry to read thats happend , this is post on the subject, may be of some use ,

G ..

http://groups.yahoo.com/group/Racal6790GM/message/605

--- In Racal6790GM@yahoogroups.com, Marcel Bechtoldt <mgabech@...> wrote:
>
> So are you telling me that the FET IC is the common problem that goes out on these A2 boards? and the Upgrade Kit is beefer and as more protection or resistant to static charges killing the FET IC like the orignal.
>
> Does the $100 pay for the FET IC and other parts that protect against static charges or is it just the IC. I had problem like this with a ICOM 756 pro and got BEV protection kit, that when the power is turn off it disconnect the antenna from the front end circuit.
>
> Is shipping included in the $100.
>
> Thanks 73
>
>
>
>
> "gewingerd@..." <gewingerd@...> wrote: "I do notices to Q3 AND Q4 have a ground lead to top of
> the transistor can tops.plate.. are these FET that go out."
>
> The FET's are inside the mixer box and that is the output of the transistors to the mixer box. I carry a replacement FET IC Upgrade KIT with Instructions and all the parts required for $100.00 per KIT plus shipping.
>
> thanks,
> Gary
>
> _____
> Enter for Your Chance to WIN
> TotalBeauty.com is giving away a trip to NYC plus lots of beauty produ
>
http://thirdpartyoffers.netzero.net/TGL2221/fc/JKFkuJkEEWR3UalN0YbmXc7

LrTsNUr9UvTz8uSjS6FUsHtXxNLI5Fn/
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>

1002. Re: RA6790/GM on eBay

Yahoo group: Racal6790GM
Date: 2008-02-26 22:57:18 UTC
From: Graham
Topic: 995 Message: 1002

Looks like 'thay' are not alone !

http://www.trainfoamers.com/

.... G

--- In Racal6790GM@yahoogroups.com, gandalfg8@... wrote:
>
>
> In a message dated 25/02/2008 14:31:45 GMT Standard Time,
danrae@...
> writes:
>
> Nigel, it does have the one 3.24 kHz symmetrical 455 filter
fitted, as
> was pointed out by the original seller, and in the original
discussion
> of this radio. It will enable good SSB and the rest of the modes
after a
> fashion, and is the hardest of the plug in filters to find.
>
>
>
> ----------
> Hi Dan
>
> I missed it when I first looked and got the impression all slots
were empty,
> but did wonder why there was only room for six filters.....
>
> whoops:-)
>
> regards
>
> Nigel
> GM8PZR
>

1003. Re: [Racal6790GM] Re: RA6790/GM on eBay

Yahoo group: Racal6790GM
Date: 2008-02-27 16:05:43 UTC
From: gandalfg8@aol.com
Topic: 995 Message: 1003

In a message dated 27/02/2008 15:55:07 GMT Standard Time, g0nbd@...
writes:

Looks like 'thay' are not alone !

http://www.trainfoahttp://ww (http://www.trainfoamers.com/)

.... G

Trying to make sense of the relevance of this, but haven't managed it so far.

Nigel
GM8PZR

1004. Re: [Racal6790GM] Re: RA6790/GM on eBay

Yahoo group: Racal6790GM
Date: 2008-02-27 17:21:01 UTC
From: gewingerd@netzero.com
Topic: 995 Message: 1004

The receiver on ebay has the F8 standard processor 8392 with the 8391 remote card however it should have the Z80 processor with the 9970 remote card installed. It is not a new as someone wants to make you think, that is why I retracted my bid from the first seller.

Why you might ask, because I built this receiver (10122) when I worked for RACAL.

Gary

_____
Click to make millions by owning your own franchise.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4t16mCGQxMtAijqQLKPb5ZmGhgdPwHhDOYDkAQTISlDN4v2R/

1005. RE: [Racal6790GM] Deaf 6790GM comon problem?

Yahoo group: Racal6790GM
Date: 2008-02-27 17:56:56 UTC
From: Robert W. Betts
Topic: 1000 Message: 1005

Hello All:
Just a philosophical note, but I never operate any of my receivers (well, the high priced ones anyhow) without a signal preconditioner of some type ahead of the antenna port. Over the years, I have serviced way too many radios that were needlessly damaged by either static build-up or EMP from a nearby strike. I do not have any experience with Racal in that regard, but with several other types. I don't mind making money, but I do prefer to not see some poor guy walking in with his multi-$K radio under his arm, and the puppy dog eyes.
Here is some of the stuff I've played with. None of it is set in stone, but some of it really helps save the equipment.
http://www.bobsamerica.com/preselectDesignNotes.html
Good signals,
Bob, N1KPR

Jon-FL <jdg32621march@...> wrote:
MGA wrote:
My 6790GM has gone deaf again.......I left the antenna connect and I think it
might of took a static charge both times.

If you are operating without one of this...
http://www.universal-radio.com/catalog/protect/1502.html
then it's the same thing as unprotected sex.

Get a surge arrestor , it's a condom for
your receiver.

Jon-FL StarChat IRC Network channels #wunclub and #monitor
..where the serious v2a/m8a/e3/e10/etc monitors hangout :)
(2x Icom IC-R75, Racal RA6790/GM, WJ-8716, BCD996T, AOR ar-8200-MK3,
GE Superadio III, t2fd)

http://www.bobsamerica.com

1006. Parts Listed on Ebay

Yahoo group: Racal6790GM
Date: 2008-02-29 23:01:41 UTC
From: bigmacinplano
Topic: 1006 Message: 1006

I have just listed some parts on Ebay. Several A2 boards which I have tested in my receiver and know to be good as well as a couple of A3 board.
Thanks for looking
K5WOR

1007. Look.. NB, PBT and multi filters with one wire.

Yahoo group: Racal6790GM
Date: 2008-02-29 22:38:11 UTC
From: mml430
Topic: 1007 Message: 1007

I guess a lot of us may have tried to marry 2 rigs in the hope of gaining the best of each... usually with poor outcomes.. In the past the only truly successful one I've had was to tap off the IF of a NRD515 into a Loewe125e... That gave me a NRD with a AM sync Det with great audio.. and even better selectivity on both Am and Ssb.

For the last 3 months I have been running 2 W&J 8709 & 8718b into a Drake R7a... I had to find a use for the R7a for it drifts like mad and the spectrum is plagued with birdies.. However it does otherwise have some really nice features. I have been very impressed by this combo... mainly into BCB AM dxing ... So I recently plugged the R7a into the ra6790gm if output.......

It is easy to monitor the output to see the difference if you use the phones out into amplified speakers.. what do you get..

A>> A new range of filters, in my case 4kc, 6kc, 1.8kc, 2.1kc etc.. in series with the racal filters.
B>> A Noise blanker that works on both ssb and am.... even at this late stage of the if strip.
C>> PBT.. very effective..
D>> Notch filter..
E>> If you are worried about the front receiver's agc being effected by splatter etc ... turn it off and let the R7a's agc do the lot.
F>> On ssb you will find the Long agc setting far more acceptable as the r7a agc reacts quickly..
You can run the 6790 IF flat out or ...recommended.. turn it back to a point where background noise just begins to drop..

Negatives......if you do not have the AUX board on the r7a you need to dail up:
AM 455kc
usb 456.8
lsb 453.2

Remember that the pbt is always on the opposite sideband.

Try it.... it is just so much better in so many ways.. if you dont have a r7a try a ic720a (need to remove attenuator pad) works reasonably well but not as many features, but they are cheap...

mml430

1008. wtb

Yahoo group: Racal6790GM
Date: 2008-03-02 22:22:17 UTC
From: elan paim
Topic: 1008 Message: 1008

hi
i am new to this group .so hi to every one .
is any one in the UK have this fine rx ?
i am looking to buy one .any info ?
many thanks

vy73
and all the best
Elan g0uut

1009. Re: [Racal6790GM] wtb

Yahoo group: Racal6790GM
Date: 2008-03-03 19:51:38 UTC
From: gewingerd@netzero.com
Topic: 1008 Message: 1009

I sell the receivers and I have 1 now that has the RF Amp installed and 6 filters. The receiver has been refurbished with new Displays, new software, new memory battery and has been fully aligned. The receiver comes with all internal and external covers.
The price is $1250.00 plus shipping. I am in the USA

thanks,
Gary
gewingerd@...

_____
Click for free info on java training and make up to $150K/ year.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4s50b1jeKa0qLh2WvbVzAbCacS7hfDoKbgduZ4bngnRjqv8N/

1010. Fwd: Re: [Racal6790GM] Look.. NB, PBT and multi filters with one wire.

Yahoo group: Racal6790GM
Date: 2008-03-03 20:52:25 UTC
From: C Riccardo E Strachan
Topic: 1010 Message: 1010

could not get the attached message delivered as addressed.

Help Please!

Note: forwarded message attached.

Cold Old Stone Crab

Never miss a thing. Make Yahoo your homepage.

1011. Re: [Racal6790GM] Look.. NB, PBT and multi filters with one wire.

Yahoo group: Racal6790GM
Date: 2008-03-03 21:00:30 UTC
From: C Riccardo E Strachan
Topic: 1007 Message: 1011

Have problems sending this to the gentleman that posted the original message with regards to the subject matter as per the attached message from mm1430@....

C Riccardo E Strachan <c6ani@...> wrote: Saw your posting below and was impressed with the comments.

I've got a TR-7A/R-7A combination and I'm wondering what you did to deal with the drift associated with the R-7A before you resorted to what is detailed below..

I've got a pair of Aux-7 boards but have yet encountered anybody who have actually been using these in the unit and wonder if you had actually installed this in your unit or what? The intent here is to have these installed in both units and pick frequencies that could be xtal controlled for calling CQ and operating split if to big a crowd is attracted.

Have none of the fancy receivers involved here but am working on acquiring a 75A-4 to hopefully pair up with the Drakes to use with seperate antennae for dual receiving et al. Could you offer any suggestions which could possibly help me improve my receiving capabilities. Had thought about a R-6790-GM but not being a technican was advise to think twice about it and the associated frustrations starting with how to go about muting the unit.

My thanks in advance.

Vy 73,
C6ANI Ric

mml430 <mml430@...> wrote: I guess a lot of us may have tried to marry 2 rigs in the hope of
gaining the best of each... usually with poor outcomes.. In the past
the only truly successful one I've had was to tap off the IF of a
NRD515 into a Loewe125e... That gave me a NRD with a AM sync Det with
great audio.. and even better selectivity on both Am and Ssb.

For the last 3 months I have been running 2 W&J 8709 & 8718b into a
Drake R7a... I had to find a use for the R7a for it drifts like mad
and the spectrum is plagued with birdies.. However it does otherwise
have some really nice features. I have been very impressed by this
combo... mainly into BCB AM dxing ... So I recently plugged the R7a
into the ra6790gm if output.......

It is easy to monitor the output to see the difference if you use the
phones out into amplified speakers.. what do you get..

A>> A new range of filters, in my case 4kc, 6kc, 1.8kc, 2.1kc etc.. in
series with the racal filters.
B>> A Noise blanker that works on both ssb and am.... even at this
late stage of the if strip.

C>> PBT.. very effective..
D>> Notch filter..
E>> If you are worried about the front receiver's agc being effected
by splatter etc ... turn it off and let the R7a's agc do the lot.
F>> On ssb you will find the Long agc setting far more acceptable as
the r7a agc reacts quickly..
You can run the 6790 IF flat out or ...recommended.. turn it back to a
point where background noise just begins to drop..

Negatives......if you do not have the AUX board on the r7a you need to
dail up:
AM 455kc
usb 456.8
lsb 453.2

Remember that the pbt is always on the opposite sideband.

Try it.... it is just so much better in so many ways.. if you dont
have a r7a try a ic720a (need to remove attenuator pad) works
reasonably well but not as many features, but they are cheap...

mml430

Cold Old Stone Crab

Never miss a thing. Make Yahoo your homepage.

Cold Old Stone Crab

Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try it now.

1012. Re: Yer New Toy

Yahoo group: Racal6790GM
Date: 2008-03-04 00:30:57 UTC
From: TC Dailey
Topic: 1012 Message: 1012

yeah... I've used that story too - it never works.

No change... just make it even... what the heck.

Actually, what really works is to bring home the new goodie from the hamfest... leave it in the garage for a couple of weeks, and after she's had time to acclimate to it's presence, THEN I bring it into the shop, and eventually into the shack... works great.

Oh, and here's the RACAL reflector URL... lots of good info:

racal6790GM@yahoogroups.com

So the final total is $675.00 (+/- a few Piasters)?
Correct me if I have that wrong.
Thanks again - I'll tell Maryann the Easter Bunny brought it.

1013. Re: Look.. NB, PBT and multi filters with one wire.

Yahoo group: Racal6790GM
Date: 2008-03-04 01:31:49 UTC
From: mml430
Topic: 1007 Message: 1013

Hi Ric..

This is a 6790gm forum so I wont dwell on the R7a/ aux-7 issue too long. Firstly the drift problem and the aux-7 installation can both be Googled, there are many articles on both issues out there and the ARRL web site. For the Freq's that interest me the R7a's much tauted front-end fails to cut it apart from all the other issues mentioned in my previous post. The 6790gm is one of the few (ra1778, 390a) that really shine.... and btw all of these work well with the R7a as a final back-end stage.. So.. if you ever get a 6790gm .. plug your R7a into the IF out.... and compare a straight R7a, a straight 6790gm, and the the 2 combined...once you have checked out all the filter combinations, agc settings, pbt, nb, notch etc, it is highly unlikely you will go back to using either one on its own... hows that for a grand statement...he.he..

Regards
mml430..

1014. Re: [Racal6790GM] Look.. NB, PBT and multi filters with one wire.

Yahoo group: Racal6790GM
Date: 2008-03-03 22:16:45 UTC
From: richard bogusz
Topic: 1007 Message: 1014

Hi Ric..

This is a 6790gm forum so I wont dwell on the R7a/ aux-7 issue too long. Firstly the drift problem and the aux-7 installation can both be Googled, there are many articles on both issues out there and the ARRL web site. For the Freq's that interest me the R7a's much tauted front-end fails to cut it apart from all the other issues mentioned in my previous post. The 6790gm is one of the few (ra1778, 390a) that really shine.... and btw all of these work well with the R7a as a final back-end stage.. So.. if you ever get a 6790gm .. plug your R7a into the IF out.... and compare a straight R7a, a straight 6790gm, and the the 2 combined...once you have checked out all the filter combinations, agc settings, pbt, nb, notch etc, it is highly unlikely you will go back to using either one on its own... hows that for a grand statement...he.he..

Regards
mml430..

Never miss a thing. Make Yahoo your homepage.

1015. Re: [Racal6790GM] Re: Look.. NB, PBT and multi filters with one wire.

Yahoo group: Racal6790GM
Date: 2008-03-04 05:09:55 UTC
From: C Riccardo E Strachan
Topic: 1007 Message: 1015

mm1430:
Please contact me direct off forum. Thank you.

mml430 <mml430@...> wrote: Hi Ric..

This is a 6790gm forum so I wont dwell on the R7a/ aux-7 issue too long. Firstly the drift problem and the aux-7 installation can both be Googled, there are many articles on both issues out there and the ARRL web site. For the Freq's that interest me the R7a's much tauted front-end fails to cut it apart from all the other issues mentioned in my previous post. The 6790gm is one of the few (ra1778, 390a) that really shine.... and btw all of these work well with the R7a as a final back-end stage.. So.. if you ever get a 6790gm .. plug your R7a into the IF out.... and compare a straight R7a, a straight 6790gm, and the the 2 combined...once you have checked out all the filter combinations, agc settings, pbt, nb, notch etc, it is highly unlikely you will go back to using either one on its own... hows that for a grand statement...he.he..

Regards
mml430..

Cold Old Stone Crab

Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try it now.

1016. Re: wtb

Yahoo group: Racal6790GM
Date: 2008-03-04 18:35:25 UTC
From: Graham
Topic: 1008 Message: 1016

Ive had one for a few years now, brought it from the usa via ebay , post was ok but the inport tax was a pain .. went on the insured vlaue .cute...take note.. , Dont see many in the uk for sale , but quite a few on the usa e-bay site ,

--- In Racal6790GM@yahoogroups.com, elan paim <paimg0uut@...> wrote:
>
> hi
> i am new to this group .so hi to every one .
> is any one in the UK have this fine rx ?
> i am looking to buy one .any info ?
> many thanks
>
>
> vy73
> and all the best
> Elan g0uut
>

1017. Software Control Software Questions

Yahoo group: Racal6790GM
Date: 2008-03-08 03:00:46 UTC
From: pidxr
Topic: 1017 Message: 1017

I am using the W6GER software (V2.1.0) to control my RA6790/GM and it works great. I have run into one issue. In CW mode, it stays in BFO mode and will not tune. Has anyone else run into this issue and is there any work-around?

Is there any command to turn off the displays in the 6790 when in software control mode?

Thanks

Mike, K7PI

1018. Re: Software Control Software Questions

Yahoo group: Racal6790GM
Date: 2008-03-08 12:11:23 UTC
From: Graham
Topic: 1017 Message: 1018

Hi,

Not sure on the bfo problem, but from memory there is a display blank commnd in the the control software , but I dont think it is coded in the software .someone may be able to help ?

G ..

--- In Racal6790GM@yahoogroups.com, "pidxr" <bipi@...> wrote:
>
> I am using the W6GER software (V2.1.0) to control my RA6790/GM and it
> works great. I have run into one issue. In CW mode, it stays in BFO
> mode and will not tune. Has anyone else run into this issue and is
> there any work-around?
>
> Is there any command to turn off the displays in the 6790 when in
> software control mode?
>
> Thanks
>
> Mike, K7PI
>

1019. Alpha filter info

Yahoo group: Racal6790GM
Date: 2008-03-22 18:02:48 UTC
From: bobbetts06
Topic: 1019 Message: 1019

Hello Group:
First, I have an Alpha crystal filter (full size, metal can), standard Racal-type plug-in for 150 Hz (pics avail). Before I go to eBay, I will swap it here for a 6 KHz similar type filter. I need a 6 KHz, and can also use an (elusive) 5 KHz as well, but not a 6.8 KHz. Please contact me privately, if interested.

Secondly, I'd appreciate any wisdom anyone can share on available after-market filters, to include the proper impedance matching and shunting as required for the 6790 for mechanical, ceramic, etc. filters.

This is a project for an off-air field monitor that we'll be using in the AM b'cast band for air checks, remotes, etc.

BTW: The accessory preselector and noise filters, which will accompany the 6790, can be viewed here:
http://www.bobsamerica.com/preselect-6.html

Thanks in advance,
and Happy Easter,

Bob, N1KPR

1020. wtb one

Yahoo group: Racal6790GM
Date: 2008-03-23 18:33:06 UTC
From: elan paim
Topic: 1020 Message: 1020

hi
looking for Racal-6790GM in good working order UK only
please send pic and price .
many thanks .

1021. Re: [Racal6790GM] Technical Question for Gary

Yahoo group: Racal6790GM
Date: 2008-03-25 19:19:07 UTC
From: oscar873@aol.com
Topic: 234 Message: 1021

Dan,

A few years ago I purchased a RA17L from you at TRW.
I thought it was in working order.But,
The 2.5 amp UK fuse is blown and one wire is disconnected from the fuse holder.
Is there a fuse available here in the USA to replace it.
The fuse is physically smaller than a GMA series fuse, I think.
 I do not recall if it came with a UK power cable and manual.
Al Royce

-----Original Message-----
From: Dan Rae <danrae@...>
To: Racal6790GM@yahoogroups.com
Sent: Tue, 21 Feb 2006 1:13 pm
Subject: Re: [Racal6790GM] Technical Question for Gary

Carcia, Francis A HS wrote:
> Wow, TRW is still going on. I hit it once a month back in '81 and '82.
I hauled a number of boxes of loot when I moved back East.
Yes Frank, it is still there, a pale shadow of it's former self, so to
peak, since the dealers have all discovered eBay, but every time I go
here's always one or two goodies to bring home, even if it's just a bag
f SMAs for a couple of bucks or 1000 6.8 µF 35V tantalums for $1...
t's the one dealer who buys scrap from Cubic that keeps me going there!
dr

ahoo! Groups Links
Racal6790GM-unsubscribe@yahoogroups.com

1022. Re: [Racal6790GM] Technical Question for Gary... well not really!

Yahoo group: Racal6790GM
Date: 2008-03-25 19:31:05 UTC
From: Dan Rae
Topic: 234 Message: 1022

oscar873@... wrote:

> Dan,
> A few years ago I purchased a RA17L from you at TRW.I

I'll take this where it should be, off list!
Dan

1023. All zeros on Freq/Mode LCDs

Yahoo group: Racal6790GM
Date: 2008-04-05 19:34:50 UTC
From: larry.mcgee20
Topic: 1023 Message: 1023

Hello all,
I have just powered up an eBay RA5790 & get all zeros in the Frequency LCD ans 2 small zeros in the Mode LCD.
I have removed and reseated the voltage wafer at the power card; set at 120 volts.
I replaced the A6 card from another working 6790.
Neither beginning cures did not fix the problem, I still see all zeros.
Any thoughts on what my next step should be to get rid of all those zeros?
Thanks,
Larry McGee

1024. Re: [Racal6790GM] All zeros on Freq/Mode LCDs

Yahoo group: Racal6790GM
Date: 2008-04-05 19:47:07 UTC
From: Dan Rae
Topic: 1023 Message: 1024

larry.mcgee20 wrote:

>Hello all,
>I have just powered up an eBay RA5790 & get all zeros in the Frequency
>LCD ans 2 small zeros in the Mode LCD.
>I have removed and reseated the voltage wafer at the power card; set at
>120 volts.
>I replaced the A6 card from another working 6790.
>Neither beginning cures did not fix the problem, I still see all zeros.
>Any thoughts on what my next step should be to get rid of all those
>zeros?
>
>

Check all the supply voltages, you may have a tantalum pulling down one
of the rails...
Good luck,
dan

1025. Manual PDF files not available??

Yahoo group: Racal6790GM
Date: 2008-04-05 23:45:45 UTC
From: larry.mcgee20
Topic: 1025 Message: 1025

Hello all,
Is anyone else getting the YAHOO message that the manual PDF files are not accessible?
Larry McGee

1026. Re: [Racal6790GM] Manual PDF files not available??

Yahoo group: Racal6790GM
Date: 2008-04-06 00:01:23 UTC
From: gandalfg8@aol.com
Topic: 1025 Message: 1026

In a message dated 06/04/2008 00:46:10 GMT Daylight Time, lrmagoo@...
writes:

Hello all,
Is anyone else getting the YAHOO message that the manual PDF files are
not accessible?
Larry McGee

I've had similar problems with quite a few Yahoo group recently.
Sometimes just coming out of the site and going straight back in again seems
to fix it, at other times waiting a bit longer before going back should
resolve it.

regards

Nigel
GM8PZR

1027. Re: [Racal6790GM] All zeros on Freq/Mode LCDs

Yahoo group: Racal6790GM
Date: 2008-04-06 00:12:30 UTC
From: gewingerd@netzero.com
Topic: 1023 Message: 1027

Larry,

Sounds like a power supply problem, the supply gives you +20 volts, +5 volts, +/- 15 volts and unregulated voltages also.
Unplug the A2, A3, A4, A, and A8 and turn the power back on and see if the display is working if so then plug them in one by one to find the faulty card.

Thanks,
Gary

_____
Want fast fitness results? Click for free info, revolutionary products.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4t9TbWKz3tGKeUYVfL6kXOhZ4jSkPyTA67Nn89QsmsyTVnDz/

1028. Re: Manual PDF files not available??

Yahoo group: Racal6790GM
Date: 2008-04-06 00:16:33 UTC
From: jlchapman936
Topic: 1025 Message: 1028

--- In Racal6790GM@yahoogroups.com, gandalfg8@... wrote:
>
>
> In a message dated 06/04/2008 00:46:10 GMT Daylight Time,
lrmagoo@...
> writes:
>
> Hello all,
> Is anyone else getting the YAHOO message that the manual PDF files
are
> not accessible?
> Larry McGee
>
>
>
> --------------
> I've had similar problems with quite a few Yahoo group recently.
> Sometimes just coming out of the site and going straight back in
again seems
> to fix it, at other times waiting a bit longer before going back
should
> resolve it.
>
> regards
>
> Nigel
> GM8PZR
>
Nigel, I did just that, signed out then singed back in and have
access to all of the files. Larry, give it a shot, log back in and
see what happens.

Regards,
John
KC5MIB

1029. List some more RA6790 Parts on EBay

Yahoo group: Racal6790GM
Date: 2008-04-06 20:13:53 UTC
From: bigmacinplano
Topic: 1029 Message: 1029

Just list what may be the last of my spare parts on EBay
K5WOR

1030. Re: [Racal6790GM] List some more RA6790 Parts on EBay

Yahoo group: Racal6790GM
Date: 2008-04-06 21:12:37 UTC
From: Dan Rae
Topic: 1029 Message: 1030

bigmacinplano wrote:

>Just list what may be the last of my spare parts on EBay
>K5WOR
>
>
And you're still calling second mixer boards first mixers :^)
ac6ao

1031. Re: List some more RA6790 Parts on EBay

Yahoo group: Racal6790GM
Date: 2008-04-08 18:43:57 UTC
From: bigmacinplano
Topic: 1029 Message: 1031

I'm a slow study I guess...Once a typo always a typo. Sorry about that.
Richard

1032. RE: [Racal6790GM] Re: List some more RA6790 Parts on EBay

Yahoo group: Racal6790GM
Date: 2008-04-18 20:16:05 UTC
From: Hunter Ellington
Topic: 1029 Message: 1032

As of April 1, 2008, Hunter Ellington is no longer with our firm.

You may contact him via his new email of rhellington@....

If you need further assistance, please contact Christina Meisel by email christina.meisel@... or telephone (303) 996-6595.

Thanks,
Christina M. Meisel
Legal Assistant/Accounting Manager
(303) 996-6595 Direct

Gorrell Giles PC

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of bigmacinplano
Sent: Tuesday, April 08, 2008 12:44 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: List some more RA6790 Parts on EBay

I'm a slow study I guess...Once a typo always a typo. Sorry about that.
Richard

1033. Memory Batteries

Yahoo group: Racal6790GM
Date: 2008-04-25 09:50:28 UTC
From: Gary E. Wingerd
Topic: 1033 Message: 1033

I now have over 300 Varta MEMPAC 2V/150H Part #55615702012 Memory Batteries for the RA6790/GM, RA6793 and RA6793A receivers. They are priced at $10.00 each plus shipping. Contact me at gewingerd@...

Thanks,
Gary

1034. 6790 on ebay

Yahoo group: Racal6790GM
Date: 2008-05-01 21:44:45 UTC
From: support
Topic: 943 Message: 1034

Hi Gary:

There's a 6790 on ebay which I'm thinking about bidding on. It powers up, but doesn't pass diagnostics. Error code 16 is displayed. According to the manual, it means there's no filter in slot 1. The seller says there is. There's two large silver filters, and several smaller blue filters in the unit.

What's your opinion on this? would it be something that could be fixed up? is it a simple battery change and re-programming issue possibly?

hope things are going well for you. Haven't heard much from the user group lately.

best regards,
bc

1035. Re: [Racal6790GM] 6790 on ebay

Yahoo group: Racal6790GM
Date: 2008-05-02 09:01:25 UTC
From: gewingerd@netzero.com
Topic: 943 Message: 1035

Bill,

It can be repaired for less that $10.00 in parts! Buy it! I will fix it for you, the problem is on the A4 card with the DAC chip that does the BITE. New battery, Software, A4 repair, Alignment and it's ready to go again.

Thanks,
Gary

_____
Click here to save on car rentals.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4uHs8RfrLldtvye8VifAyy58YNPSUDSVft5Jd25WbUPLNwZb/?count=1234567890

1036. 6790 battery

Yahoo group: Racal6790GM
Date: 2008-05-04 18:06:21 UTC
From: bobbetts06
Topic: 1036 Message: 1036

Hi Gary and All:
I'm sure I saw memory batteries on eBay, but they aren't there today,
maybe the auction timed out (guess I've been too busy lately).
Anyhow, would you have a new one or lead me to a source?
Thank you and best regards,
Bob, N1KPR

1037. Re: [Racal6790GM] 6790 battery

Yahoo group: Racal6790GM
Date: 2008-05-05 00:08:21 UTC
From: gewingerd@netzero.com
Topic: 1036 Message: 1037

Bob,

I have the batteries, they are $10.00 each plus $6.75 shipping in the USA

Thanks,
Gary

Looking for insurance? Click to compare and save big.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tyWPNyANlJAJxdyGNZap5rAlQBZR4uxq6rEkvruPSlnyuop/?count=1234567890

1038. Re[2]: [Racal6790GM] 6790 on ebay

Yahoo group: Racal6790GM
Date: 2008-05-05 22:27:23 UTC
From: support
Topic: 943 Message: 1038

Gary:
Bought it! Do you want me to ship the whole radio to you, or do it in pieces?

bc

********** REPLY SEPARATOR **********

On 5/2/08 at 9:01 AM gewingerd@... wrote:

Bill,

It can be repaired for less that $10.00 in parts! Buy it! I will fix it
for you, the problem is on the A4 card with the DAC chip that does the
BITE. New battery, Software, A4 repair, Alignment and it's ready to go
again.

Thanks,
Gary

Click here to save on car rentals.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4uHs8RfrLldtvye8VifAyy58YNPSUDSVft5Jd25WbUPLNwZb/?count=1234567890

Yahoo! Groups Links

1039. Re: Re[2]: [Racal6790GM] 6790 on ebay

Yahoo group: Racal6790GM
Date: 2008-05-06 09:09:32 UTC
From: gewingerd@netzero.com
Topic: 943 Message: 1039

Bill,

Ship the whole receiver to me and I will fix and align it for you.

Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733

Thanks,
Gary

_____
Largest network of startups. Find new startup opportunities. Click here.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4s07Oi3Pxud1idJpU3LcGu0WnndtdWh4EJOp5N10zGVEVQ4J/?count=1234567890

1040. Version with no Long AGC??

Yahoo group: Racal6790GM
Date: 2008-05-06 14:04:31 UTC
From: larry.mcgee20
Topic: 1040 Message: 1040

Hello all.

There is a new eBay listing wherein the seller states that this receiver is "the version with only 2 AGC constants, short and medium".

I am writing because I too have one of these "rare??" versions - it will not go into LONG AGC when I press (light or hard) LONG on the keypad.

I originally thought it was a bad keypad or ribbom cable from the keypad to the board (this cable has a hard crease between the KP and PCB connector instead of being soft rolled). In addition, the BW1 key does not switch in the lowest filter value that is installed; BW2 would switch in the 1200 Hz filter - removed the 400Hz filter, ran BITE, BW1 would not switch in any filter, BW2 would switch in 3.4KHz.

My questions are:

Was there ever a receiver made with no LONG AGC?

I seem to remember reading that the Keypads can have problems; is this the most likely cause for my 2 "dead??" keys? Or the creased ribbon cable, or the register IC(s) on the PCB?

I have a couple of parts receivers do donate parts for repairs.

Thanks for your thoughts.

Larry

1041. Re: [Racal6790GM] Version with no Long AGC??

Yahoo group: Racal6790GM
Date: 2008-05-06 16:11:18 UTC
From: gewingerd@netzero.com
Topic: 1040 Message: 1041
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1042. Re[4]: [Racal6790GM] 6790 on ebay

Yahoo group: Racal6790GM
Date: 2008-05-07 20:52:40 UTC
From: support
Topic: 943 Message: 1042

Gary:
Shipping to you today.

Please replace the CPU battery while you're at it.

thanks,
bc

********** REPLY SEPARATOR **********

On 5/6/08 at 9:09 AM gewingerd@... wrote:

Bill,

Ship the whole receiver to me and I will fix and align it for you.

Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733

Thanks,
Gary

_____
Largest network of startups. Find new startup opportunities. Click here.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4s07Oi3Pxud1idJpU3LcGu0WnndtdWh4EJOp5N10zGVEVQ4J/?count=1234567890

Yahoo! Groups Links

1043. Re: [Racal6790GM] 6790 battery

Yahoo group: Racal6790GM
Date: 2008-05-08 15:20:19 UTC
From: Bob Betts
Topic: 1036 Message: 1043

The battery arrived.
Thank you very much.
Bob

"gewingerd@..." <gewingerd@...> wrote:
Bob,

I have the batteries, they are $10.00 each plus $6.75 shipping in the USA

Thanks,
Gary

Looking for insurance? Click to compare and save big.
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4tyWPNyANlJAJxdyGNZap5rAlQBZR4uxq6rEkvruPSlnyuop/?count=1234567890

Yahoo! Groups Links

http://www.bobsamerica.com

1044. Re[4]: [Racal6790GM] 6790 on ebay

Yahoo group: Racal6790GM
Date: 2008-05-09 23:49:31 UTC
From: support
Topic: 943 Message: 1044

Gary:
Receiver's on it's way. UPS tracking number 1ZX2X3404229979408

Take care of it. I'll be in Disneyland next week, but call or email if you need anything.
Cell: 831-295-0331
billc@...

********** REPLY SEPARATOR **********

On 5/6/08 at 9:09 AM gewingerd@... wrote:

Bill,

Ship the whole receiver to me and I will fix and align it for you.

Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733

Thanks,
Gary

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http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4s07Oi3Pxud1idJpU3LcGu0WnndtdWh4EJOp5N10zGVEVQ4J/?count=1234567890

Yahoo! Groups Links

1045. A4 board filters for ISB

Yahoo group: Racal6790GM
Date: 2008-05-11 00:06:44 UTC
From: larry.mcgee20
Topic: 1045 Message: 1045

Hello to all.

I have an ISB board that I wanted to install in a receiver with the regular A4 board. I know I have to change 1 A4 jumper, plus adjust the trim pot on the front panel per the manual. Will the proms on the A6 board work with the ISB board added?. What are the ideal ISB filters? I have one filter for ISB/Lower SB & one filter for ISB/Upper SB.

What do you actually get and gain when using ISB (Independent Side Band)?

Thanks for your information.

Larry mCgee

1046. Re: [Racal6790GM] A4 board filters for ISB

Yahoo group: Racal6790GM
Date: 2008-05-11 01:34:54 UTC
From: gewingerd@netzero.com
Topic: 1045 Message: 1046

Larry,

The software 9666 and 8449 will run the ISB board.
Filters are out there if you can find them.
The unit with the card and filters installed will allow you to listen to USB and LSB at the same time from the rear panel.
Good luck.

Gary

_____
Click here for great computer networking solutions!
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4vC4g1Vt5uXrHHZJP25APHnwbDEaS1X8PfMwJyE7wb0JussZ/?count=1234567890

1047. RA6772 Info Needed

Yahoo group: Racal6790GM
Date: 2008-05-11 18:08:21 UTC
From: cdlale63
Topic: 1047 Message: 1047

I just picked up a RA6772 with manuals in great condition,I am looking for any info on these radios. My radio also has a 50 pin D port on the back. Is this for computer control? I know it was available as a option.
Thanks
Cecil Lale
KF6ZOK

1048. Re: [Racal6790GM] RA6772 Info Needed

Yahoo group: Racal6790GM
Date: 2008-05-11 18:55:29 UTC
From: Tom B
Topic: 1047 Message: 1048

Hello Cecil,

>I just picked up a RA6772 with manuals in great condition,I am looking
>for any info on these radios. My radio also has a 50 pin D port on the
>back. Is this for computer control? I know it was available as a option.

I didn't see anything in the manual or data sheet for computer
control for the 6772.
Is it possible you have a 6772C or 6772E?

Tom Bryan
N3AJA

1049. Re: [Racal6790GM] RA6772 Info Needed

Yahoo group: Racal6790GM
Date: 2008-05-11 21:02:26 UTC
From: Dan Rae
Topic: 1047 Message: 1049

Tom B wrote:

>Hello Cecil,
>
>
>
>>I just picked up a RA6772 with manuals in great condition,I am looking
>>for any info on these radios. My radio also has a 50 pin D port on the
>>back. Is this for computer control? I know it was available as a option.
>>
>>
>
>I didn't see anything in the manual or data sheet for computer
>control for the 6772.
>Is it possible you have a 6772C or 6772E?
>
>Tom Bryan
>N3AJA
>
>
>

I've never seen that on several RA1772s that have passed through my hands, but on the 6772 here there is indeed a blanked off hole for a 50 way cannon D sub at the back. The 6772E as Tom says, had a remote option but I think from memory that used a round 26 pin connector like all the later ones. There's not a lot of room for the sort of stuff that was used to remote the 6772E inside the 6772, in the -E it's a board running the full width of the panel, pretty much, and then what would you do with all the analog stuff, like the BFO?

No mention of anything in the manuals for the 6772.

Dan
ac6ao / g3ncr

1050. Re: RA6772 Info Needed

Yahoo group: Racal6790GM
Date: 2008-05-11 23:57:05 UTC
From: cdlale63
Topic: 1047 Message: 1050

The data sheet says it is available as a option,but the operator or
the tech manuals says nothing about the port. The exact model number
is RA6772-Si. Does anyone know what services used these receivers?
Cecil
--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> Tom B wrote:
>
> >Hello Cecil,
> >
> >
> >
> >>I just picked up a RA6772 with manuals in great condition,I am
looking
> >>for any info on these radios. My radio also has a 50 pin D port
on the
> >>back. Is this for computer control? I know it was available as a
option.
> >>
> >>
> >
> >I didn't see anything in the manual or data sheet for computer
> >control for the 6772.
> >Is it possible you have a 6772C or 6772E?
> >
> >Tom Bryan
> >N3AJA
> >
> >
> >
> I've never seen that on several RA1772s that have passed through my
> hands, but on the 6772 here there is indeed a blanked off hole for
a 50
> way cannon D sub at the back. The 6772E as Tom says, had a remote
> option but I think from memory that used a round 26 pin connector
like
> all the later ones. There's not a lot of room for the sort of stuff
that
> was used to remote the 6772E inside the 6772, in the -E it's a
board
> running the full width of the panel, pretty much, and then what
would
> you do with all the analog stuff, like the BFO?
>
> No mention of anything in the manuals for the 6772.

>
> Dan
> ac6ao / g3ncr
>

1051. Still looking for ISB board

Yahoo group: Racal6790GM
Date: 2008-05-14 18:55:19 UTC
From: Graham
Topic: 1051 Message: 1051

Still looking for isb board

Any one any links as to a supply ?

tnx - G ..

1052. RA6790 rcvr

Yahoo group: Racal6790GM
Date: 2008-05-17 15:41:26 UTC
From: H Lawrence Serra
Topic: 1052 Message: 1052

I am looking for a good to excellent condx RA6790 (milspec, if you have one), with all filters and the RF AMP unit installed. If you have one you might part with, please contact me.

Thanks and 73,

Larry N6NC
email hlserra@...

1053. Re: [Racal6790GM] RA6790 rcvr

Yahoo group: Racal6790GM
Date: 2008-05-18 01:28:26 UTC
From: mparkinson1
Topic: 1052 Message: 1053

I do have one but not really sure I want to get rid of it.
It has the rf amp in it also full stack of filters new battery for the cpu has a lamp board installed for the display it is loaded.
It has the Mechanical filters installed.
Gary Wingard went through it about a year and a half ago.
Works very well and looks very good to excellenty condition.
The problem is the price I paid plenty for it and plus the price of Gary going thought it that was not cheap either as you might figure.
I know there are pleny of 6790s on ebay all the time but 99% don't have the light board or the RF amp installed.
IF the price is right I might let it go I don't use it that offen and I do have other receivers.
Matt Parkinson Military Equipment & R 390A Depot Center

1054. WTB RF AMP module for RA6790

Yahoo group: Racal6790GM
Date: 2008-05-18 17:08:42 UTC
From: H Lawrence Serra
Topic: 1054 Message: 1054

Thanks, all, for your help. I have located an RA6790, but am desparately seeking the RF AMP module board (# 8076, I think) for the RA6790, for T/R front end protection from RF for my application. Anyone have one they are willing to part with?

73, Larry N6NC

1055. Re: [Racal6790GM] WTB RF AMP module for RA6790

Yahoo group: Racal6790GM
Date: 2008-05-18 17:43:09 UTC
From: Dan Rae
Topic: 1054 Message: 1055

H Lawrence Serra wrote:

> Thanks, all, for your help. I have located an RA6790, but am
> desparately seeking the RF AMP module board (# 8076, I think) for the
> RA6790, for T/R front end protection from RF for my application.
> Anyone have one they are willing to part with?
>

They come up often on eBay from parted out RA1792s that have dud LCD displays. One sold recently for the ridiculously low price of 10.50 Euros (about $16 US) from Italy:
Item number: 220231442387
Most fetch a lot more than that however.

Can't Gary sell you one?

Dan

1056. T/R Protection Circuit for RA 6790

Yahoo group: Racal6790GM
Date: 2008-05-19 03:00:35 UTC
From: n6nc2007
Topic: 1056 Message: 1056

Is anyone using the RA 6790 in a T/R configuration with a tranmitter?

Is there an internal MUTE circuit which cuts off the ANT/RF input to protect the receiver? (I can't find one in the manual.)

Is there an external muting circuit or device available that protects the 6790 front end from RF strong RF on transmit?

73 Larry N6NC

1057. Re:T/R Protection Circuit for RA 6790

Yahoo group: Racal6790GM
Date: 2008-05-19 21:43:57 UTC
From: Ed & Mary Wambold
Topic: 1056 Message: 1057

I use one of my 6790's with a T-368 transmitter. The 6790 has a built-in APC (antenna protection circuit, I presume) and no muting. My T-368 has an internal TR relay, and when I transmit, I just turn down the audio on the 6790. No front end failures to date.

I also use an additional protection circuit ahead of the other 6790's, just in case. It is nothing more than a 2.5 mh choke from the antenna hot to ground, and a .01 ceramic disk to pass the signal from the hot side of the 2.5 choke to the 6790. This arrangement works well as a static drain, preventing any voltage from getting into the front end.

Ed, N3LHB

1058. Re:T/R Protection Circuit for RA 6790

Yahoo group: Racal6790GM
Date: 2008-05-19 22:28:54 UTC
From: Graham
Topic: 1056 Message: 1058

This device works well :-

http://groups.yahoo.com/group/Racal6790GM/message/605

G ..

--- In Racal6790GM@yahoogroups.com, "Ed & Mary Wambold" <n3lhb@...>
wrote:
>
> I use one of my 6790's with a T-368 transmitter. The 6790 has a
built-in APC (antenna protection circuit, I presume) and no muting.
My T-368 has an internal TR relay, and when I transmit, I just turn
down the audio on the 6790. No front end failures to date.
>
> I also use an additional protection circuit ahead of the other
6790's, just in case. It is nothing more than a 2.5 mh choke from the
antenna hot to ground, and a .01 ceramic disk to pass the signal from
the hot side of the 2.5 choke to the 6790. This arrangement works
well as a static drain, preventing any voltage from getting into the
front end.
>
> Ed, N3LHB
>

1059. Re: WTB RF AMP module for RA6790

Yahoo group: Racal6790GM
Date: 2008-05-20 14:23:39 UTC
From: bobbetts06
Topic: 1054 Message: 1059

Hi Dan and All:
Is there a schematic for that? I can't find one in the 6790 manual. Currently, I'm using a MiniCircuits MMIC MAR 6 (I think, maybe a 4?), anyhow, it has a gain control which can also be used for true RF Gain or Attenuation. I also do all the static DC, pulse, and transient bypassing at that point. I use 3 (914) diodes in each direction which are switch selectable for 1, 2, 3, and series-fed through a pot for sensitivity control. A second string of them is pre-biased (adjustable) toward conduction, so that the slightest threshold peak punches a hole in the signal path. It's very effective on a lot of types of noise.
Anyway, I'd love to see what the Racal engineers did in their preamp, if anyone can lead me to the schematic.
Good signals,
Bob, N1KPR

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> H Lawrence Serra wrote:
>
> > Thanks, all, for your help. I have located an RA6790, but am
> > desparately seeking the RF AMP module board (# 8076, I think) for
the
> > RA6790, for T/R front end protection from RF for my application.
> > Anyone have one they are willing to part with?
> >
>
> They come up often on eBay from parted out RA1792s that have dud
LCD
> displays. One sold recently for the ridiculously low price of
10.50
> Euros (about $16 US) from Italy:
> Item number: 220231442387
> Most fetch a lot more than that however.
>
> Can't Gary sell you one?
>
> Dan
>

1060. Re: [Racal6790GM] Re: WTB RF AMP module for RA6790

Yahoo group: Racal6790GM
Date: 2008-05-20 15:02:40 UTC
From: Dan Rae
Topic: 1054 Message: 1060

bobbetts06 wrote:

>Hi Dan and All:
>Is there a schematic for that? I can't find one in the 6790 manual.
>
The manual for the RA1792 is on line somewhere, it is the same module in
that.

Google just throws up old ebay sales and other commercials, but I know
it is around somewhere...
dr

1061. Re: [Racal6790GM] Re: WTB RF AMP module for RA6790

Yahoo group: Racal6790GM
Date: 2008-05-20 15:11:56 UTC
From: Dan Rae
Topic: 1054 Message: 1061

bobbetts06 wrote:

>Hi Dan and All:
>Is there a schematic for that?
>
Bob, I just uploaded the pdf for that to the group files section.
Easier than you hunting for it.
dr

1062. Re: [Racal6790GM] Re: WTB RF AMP module for RA6790

Yahoo group: Racal6790GM
Date: 2008-05-20 15:18:24 UTC
From: Bob Betts
Topic: 1054 Message: 1062

Thank you, Dan. I've been searching with Copernic Agent - a good tool, but nothing yet.
Thanks for your help.
Bob

Dan Rae <danrae@...> wrote:
bobbetts06 wrote:

>Hi Dan and All:
>Is there a schematic for that?
>
Bob, I just uploaded the pdf for that to the group files section.
Easier than you hunting for it.
dr

http://www.bobsamerica.com

1063. RE: [Racal6790GM] Re: WTB RF AMP module for RA6790

Yahoo group: Racal6790GM
Date: 2008-05-20 15:51:55 UTC
From: Carcia, Francis A HS
Topic: 1054 Message: 1063
Attachments: 1 described; binary payloads are missing from this source WARC

here you go

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of bobbetts06
Sent: Tuesday, May 20, 2008 10:24 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: WTB RF AMP module for RA6790

Hi Dan and All:
Is there a schematic for that? I can't find one in the 6790 manual.
Currently, I'm using a MiniCircuits MMIC MAR 6 (I think, maybe a 4?),
anyhow, it has a gain control which can also be used for true RF Gain
or Attenuation. I also do all the static DC, pulse, and transient
bypassing at that point. I use 3 (914) diodes in each direction which
are switch selectable for 1, 2, 3, and series-fed through a pot for
sensitivity control. A second string of them is pre-biased
(adjustable) toward conduction, so that the slightest threshold peak
punches a hole in the signal path. It's very effective on a lot of
types of noise.
Anyway, I'd love to see what the Racal engineers did in their preamp,
if anyone can lead me to the schematic.
Good signals,
Bob, N1KPR

--- In Racal6790GM@yahoogroups.com
<mailto:Racal6790GM%40yahoogroups.com> , Dan Rae <danrae@...> wrote:
>
> H Lawrence Serra wrote:
>
> > Thanks, all, for your help. I have located an RA6790, but am
> > desparately seeking the RF AMP module board (# 8076, I think) for
the
> > RA6790, for T/R front end protection from RF for my application.
> > Anyone have one they are willing to part with?
> >
>
> They come up often on eBay from parted out RA1792s that have dud
LCD
> displays. One sold recently for the ridiculously low price of
10.50
> Euros (about $16 US) from Italy:
> Item number: 220231442387
> Most fetch a lot more than that however.

>
> Can't Gary sell you one?
>
> Dan
>

1064. Re: WTB RF AMP module for RA6790

Yahoo group: Racal6790GM
Date: 2008-05-27 04:04:53 UTC
From: n6nc2007
Topic: 1054 Message: 1064

Thanks again, Francis. 73, Larry N6NC

--- In Racal6790GM@yahoogroups.com, "Carcia, Francis A HS"
<francis.carcia@...> wrote:
>
> here you go
>
> _____
>
> From: Racal6790GM@yahoogroups.com
[mailto:Racal6790GM@yahoogroups.com]
> On Behalf Of bobbetts06
> Sent: Tuesday, May 20, 2008 10:24 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Re: WTB RF AMP module for RA6790
>
>
>
> Hi Dan and All:
> Is there a schematic for that? I can't find one in the 6790
manual.
> Currently, I'm using a MiniCircuits MMIC MAR 6 (I think, maybe a
4?),
> anyhow, it has a gain control which can also be used for true RF
Gain
> or Attenuation. I also do all the static DC, pulse, and transient
> bypassing at that point. I use 3 (914) diodes in each direction
which
> are switch selectable for 1, 2, 3, and series-fed through a pot
for
> sensitivity control. A second string of them is pre-biased
> (adjustable) toward conduction, so that the slightest threshold
peak
> punches a hole in the signal path. It's very effective on a lot of
> types of noise.
> Anyway, I'd love to see what the Racal engineers did in their
preamp,
> if anyone can lead me to the schematic.
> Good signals,
> Bob, N1KPR
>
> --- In Racal6790GM@yahoogroups.com
> <mailto:Racal6790GM%40yahoogroups.com> , Dan Rae <danrae@> wrote:
> >
> > H Lawrence Serra wrote:

> >
> > > Thanks, all, for your help. I have located an RA6790, but am
> > > desparately seeking the RF AMP module board (# 8076, I think)
for
> the
> > > RA6790, for T/R front end protection from RF for my
application.
> > > Anyone have one they are willing to part with?
> > >
> >
> > They come up often on eBay from parted out RA1792s that have dud
> LCD
> > displays. One sold recently for the ridiculously low price of
> 10.50
> > Euros (about $16 US) from Italy:
> > Item number: 220231442387
> > Most fetch a lot more than that however.
> >
> > Can't Gary sell you one?
> >
> > Dan
> >
>

1065. New Member Intro

Yahoo group: Racal6790GM
Date: 2008-05-27 16:40:36 UTC
From: scm325
Topic: 1065 Message: 1065

Hello to the group,

Boy I am glad & excited to be a member, I picked one of these receivers at Dayton this year. The seller told me it wasn't working, but it had 5 filters in it & all the other boards. I got it for just over $200 (hope I wasn't skunked)...have been working with on it a little. I found some shorted caps on the A7 board and got the power supply rails all back up to voltage...then no A6A2 board activity...poked around on it and it fired up sometimes and wouldn't others...figured a loose solder joint...reflowed most of the pins & now its dead.

Anyway as I said before I'm glad I found you guys and will be posting somemore questions for help & guidance in the future. Name is Steve and I live in East Tennessee, work in the twoway comm field as a contractor to a fed agency, Extra Class & GROL holder, first licensed in 1976. Looking forward to meeting the other members & learning & maybe later down the road helping too.

73 for now,
Steve
WD4GYN

1066. Re: [Racal6790GM] New Member Intro

Yahoo group: Racal6790GM
Date: 2008-05-27 17:03:23 UTC
From: gewingerd@netzero.com
Topic: 1065 Message: 1066
Attachments: 4 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1067. Re: [Racal6790GM] New Member Intro

Yahoo group: Racal6790GM
Date: 2008-05-27 17:04:56 UTC
From: Dan Rae
Topic: 1065 Message: 1067

scm325 wrote:

>Hello to the group,
>
>Boy I am glad & excited to be a member, I picked one of these
>receivers at Dayton this year. The seller told me it wasn't
>working, but it had 5 filters in it & all the other boards. I got
>it for just over $200 (hope I wasn't skunked)...have been working
>with on it a little. I found some shorted caps on the A7 board and
>got the power supply rails all back up to voltage...then no A6A2
>board activity...poked around on it and it fired up sometimes and
>wouldn't others...figured a loose solder joint...reflowed most of
>the pins & now its dead.
>
>

Steve, for that money it was a good buy.

The A6A2 board, as I'm sure you will be told by many people is very often damaged by leakage from the Nicad RAM back up battery. Drop in NiMH replacements which generally do not leak are available from Mouser and elsewhere for around $10.

The damage caused varies a lot. Check any VIAs in that area for continuity. The 5101 RAMs are liable to be killed, being right next to the battery, but that usually shows up with odd displays, on alternate digits, if just one RAM is dead... The chemical released by the Nicads is a caustic alkali, and also is conductive, so if any residue remains on the boards it can cause all sorts of odd things. I wash with a little dilute vinegar and then lots of distilled water. It can also get under the 34 way connector at that end and cause havoc there. Check the reset line for correct action; that can stop the cpu completely if it is not doing it's thing, obviously.

Good luck,

Dan
ac6ao / g3ncr

1068. Re: New Member Intro

Yahoo group: Racal6790GM
Date: 2008-05-27 17:52:58 UTC
From: Graham
Topic: 1065 Message: 1068

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> scm325 wrote:
>
> >Hello to the group,
> >
> >Boy I am glad & excited to be a member, I picked one of these
> >receivers at Dayton this year. The seller told me it wasn't
> >working, but it had 5 filters in it & all the other boards. I got
> >it for just over $200 (hope I wasn't skunked)...have been working
> >with on it a little. I found some shorted caps on the A7 board
and
> >got the power supply rails all back up to voltage...then no A6A2
> >board activity...poked around on it and it fired up sometimes and
> >wouldn't others...figured a loose solder joint...reflowed most of
> >the pins & now its dead.
> >
> >
>
> Steve, for that money it was a good buy.
>
> The A6A2 board, as I'm sure you will be told by many people is very
> often damaged by leakage from the Nicad RAM back up battery. Drop
in
> NiMH replacements which generally do not leak are available from
Mouser
> and elsewhere for around $10.
>
> The damage caused varies a lot. Check any VIAs in that area for
> continuity. The 5101 RAMs are liable to be killed, being right
next to
> the battery, but that usually shows up with odd displays, on
alternate
> digits, if just one RAM is dead... The chemical released by the
Nicads
> is a caustic alkali, and also is conductive, so if any residue
remains
> on the boards it can cause all sorts of odd things. I wash with a
> little dilute vinegar and then lots of distilled water. It can
also get
> under the 34 way connector at that end and cause havoc there.
Check the
> reset line for correct action; that can stop the cpu completely if
it is
> not doing it's thing, obviously.

>
> Good luck,
>
> Dan
> ac6ao / g3ncr
>

Your right on that Dan, the memory battery in my 1778 had sprayed electrolite over the back of the shaft encoder , removing some of the track's ... had to re-lay them with very fine wire , luckly the rest had dripped down onto the base plate ..

G ..

Ps .. still not found a ISB boad :(

1069. ISB boards

Yahoo group: Racal6790GM
Date: 2008-05-27 18:19:00 UTC
From: Dan Rae
Topic: 1065 Message: 1069

Graham wrote:

>Your right on that Dan, the memory battery in my 1778 had sprayed
>electrolite over the back of the shaft encoder , removing some of
>the track's ... had to re-lay them with very fine wire , luckly the
>rest had dripped down onto the base plate ..
>
>G ..
>
>Ps .. still not found a ISB boad :(
>
>
>
>
In that one Graham, it is at least off the memory board in a separate holder / board!

The ISB board from the 1792 will fit, just about, and work in the 6790/GM, you might have more luck finding one of them where you are... It has two IF outputs but they can be ignored, they aren't populated in the /GM version, or one isn't.

What I don't know is why anyone wants one :^) I can't imagine what use they are. Most of the military use of them was data on one sideband and voice on the other and the 6790/GM has only the line audio outputs both active at the same time, otherwise you have to switch, and you can do that with the regular receiver...

Cheers,

Dan

1070. Warm Welcome

Yahoo group: Racal6790GM
Date: 2008-05-28 00:04:45 UTC
From: scm325
Topic: 1070 Message: 1070

Thanks Gary, Graham, & Dan for the files, info, and the warm welcome!

The board has had some very very minor corrosion from a battery in the past, mainly just discolored the traces (I removed the existing battery first thing, as someone had told me that these could be a problem) It (this battery looks OK and checks to about 2.4 Vdc; however its date coded 8818 so I assume its about 20 years old and I will replace it .

When the microprosser would run I usally had to gently tap around the 2MHz xtal or on U2 or U1 and sometime it would take off and run the Bite test and sometimes it wouldn't (somewaht erratic) I'm going to look all this over again, especially the corrosion and clean the board.

Here is some additional info:

Sometimes after the Bite test (usally came up with an 04) the radio would come up with a normal display with most of the keypad functions working, but got a fault light whenever the keypads were working and I selected CW...fault light went away if I went to another mode. But tapping gently around the Xtal / U1 / U2 made it fail again most times the display went to all zeroes or giberish.

Looking at the xtal pins on U1 showed xtal activity sometimes and sometimes not. Anybody got a typical scope /signal level for the xtal pins?

Anyway this is why I decided to reflow (resolder the pins) around the xtal and U1 & U2...while I was at it I reflowed every point on the whole board...now its seems dead; although the xtal pins show signal (2.001576 MHz somewhat rough sine wave) and I see a voltage coming up on the reset line pin 37 of U1.

Should this reset signal be a steady state or pulsed high and then low again, or what? It seems to go high and stay.

Have checked most of the printed circuit board runs, lands, traces and though holes around the battery and that end of the board for integrity / continuity, but feel maybe I might have zapped the processor or other IC or part of the reset circuitry when I reflowed.

Any guidance in verifiing the reset & processor startup would be appreciated

Thanks again for the warm welcome & assitance,
Steve
WD4GYN

1071. Re: [Racal6790GM] Warm Welcome

Yahoo group: Racal6790GM
Date: 2008-05-28 09:20:41 UTC
From: gewingerd@netzero.com
Topic: 1070 Message: 1071
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1072. Re: [Racal6790GM] Warm Welcome

Yahoo group: Racal6790GM
Date: 2008-05-28 14:23:35 UTC
From: Dan Rae
Topic: 1070 Message: 1072

scm325 wrote:

>Should this reset signal be a steady state or pulsed high and then
>low again, or what? It seems to go high and stay.
>
>Have checked most of the printed circuit board runs, lands, traces
>and though holes around the battery and that end of the board for
>integrity / continuity, but feel maybe I might have zapped the
>processor or other IC or part of the reset circuitry when I
>reflowed.
>
>
>
If you did not use the normal protection against electrostatic discharge you may well have done some harm. One should use an ESD safe workstation, i.e. grounded conductive mat on the bench and a wrist band, when working with CMOS. And never ever disconnect a board while it is powered up.

>Any guidance in verifiing the reset & processor startup would be
>appreciated
>
>
>
Steve, the reset line, or more properly the NOT reset line, should go high about a second after a cold start and stay there.

The crystal should show 5 Volt p to p on a scope.

One thing that may be worth checking is whether the 3 eproms are properly seated in their sockets and the pins not affected by the battery leakage. The battery stuff can get into the sockets and cause odd things to happen. And get that battery out of there asap!

Gary's estimate of a hour's labor for the repair sounds like a bargain to me :^) Tracking that stuff down usually takes me a lot longer!

73
Dan
ac6ao / g3ncr

1073. 1992 frequency counter

Yahoo group: Racal6790GM
Date: 2008-05-29 00:59:04 UTC
From: toptyp19
Topic: 1073 Message: 1073

Hello everyone-

First let me say that I own a 6790/GM. I checked and
there are no general Racal groups to ask so here goes.
Help! I have a 1992 frequency counter in need of pushbutton
switches. Does anyone out there know where I can obtain oh,
say, 10 of them?? They can be used, of course; just usable.
Or, does anyone know who manufactured them? Perhaps I can
purchase them new if I can find out.

Thanks for any info anybody can provide.

Joe.

1074. Re: [Racal6790GM] 1992 frequency counter

Yahoo group: Racal6790GM
Date: 2008-05-29 14:12:08 UTC
From: Dan Rae
Topic: 1073 Message: 1074

toptyp19 wrote:

>Hello everyone-
>
>First let me say that I own a 6790/GM. I checked and
>there are no general Racal groups to ask so here goes.
>Help! I have a 1992 frequency counter in need of pushbutton
>switches. Does anyone out there know where I can obtain oh,
>say, 10 of them?? They can be used, of course; just usable.
>Or, does anyone know who manufactured them? Perhaps I can
>purchase them new if I can find out.
>
>
>

Joe, you're out of luck.

There was exhaustive discussion of these recently on the Time Nuts group. They were made by Toko originally and have not been available for years. Worse, there seems to be no drop in replacement currently available. The near equivalent ones I got from Jameco for mine are no longer available from them either.

And now the really bad news: if any of them go then the rest will follow shortly, so you will need all 33 (I think it is), not just ten.

Sorry to ruin your day!

Dan
ac6ao / g3ncr

1075. Re: Warm Welcome

Yahoo group: Racal6790GM
Date: 2008-05-29 23:46:54 UTC
From: scm325
Topic: 1070 Message: 1075

Tnx again Gary, I've sent you an email.

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...>
wrote:
>
> I have attached the BITE codes this may help, if you cant get the
board running send it to me. I repair the cards for $35.00 and plus
parts and shipping.
>
> thanks,
> Gary
> _____
> Click here for to find products that will help grow your small
business.
>
http://thirdpartyoffers.netzero.net/TGL2221/fc/Ioyw6i4t3HXAarh67rbXDCLKh
s9zNnf4cz4OjWsDuaUtge9P70h19f/?count=1234567890
>

1076. Re: Warm Welcome

Yahoo group: Racal6790GM
Date: 2008-05-29 23:52:46 UTC
From: scm325
Topic: 1070 Message: 1076

Tnx Again Dan,

The reset circuitry operation and Xtal level are just what I have...I may have blown something, but it would be one of the very few times I have; my bench is pretty well ESD safe with all the equip you mentioned...and I never hot swapped the board (rarely do unless the piece specifically states that its permisable and then I still won't unless no other option exists.

Steve

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> scm325 wrote:
>
> >Should this reset signal be a steady state or pulsed high and then
> >low again, or what? It seems to go high and stay.
> >
> >Have checked most of the printed circuit board runs, lands, traces
> >and though holes around the battery and that end of the board for
> >integrity / continuity, but feel maybe I might have zapped the
> >processor or other IC or part of the reset circuitry when I
> >reflowed.
> >
> >
> >
> If you did not use the normal protection against electrostatic
discharge
> you may well have done some harm. One should use an ESD safe
> workstation, i.e. grounded conductive mat on the bench and a wrist
band,
> when working with CMOS. And never ever disconnect a board while it
is
> powered up.
>
> >Any guidance in verifiing the reset & processor startup would be
> >appreciated
> >
> >
> >
> Steve, the reset line, or more properly the NOT reset line, should
go
> high about a second after a cold start and stay there.
>
> The crystal should show 5 Volt p to p on a scope.
>

> One thing that may be worth checking is whether the 3 eproms are
> properly seated in their sockets and the pins not affected by the
> battery leakage. The battery stuff can get into the sockets and
cause
> odd things to happen. And get that battery out of there asap!
>
> Gary's estimate of a hour's labor for the repair sounds like a
bargain
> to me :^) Tracking that stuff down usually takes me a lot longer!
>
> 73
> Dan
> ac6ao / g3ncr
>

1077. Racal 1992

Yahoo group: Racal6790GM
Date: 2008-05-30 01:28:07 UTC
From: billw77aaz
Topic: 1077 Message: 1077

Oh GREAT, now in addition to having my RA6790GM to keep running,
you're telling me my 1992 Counter is in danger of losing its life?

I could stand losing the receiver a lot more than that counter. It is
a gem.

Bill - W7AAZ

1078. Re: 1992 frequency counter

Yahoo group: Racal6790GM
Date: 2008-05-29 21:26:10 UTC
From: darcy_nick
Topic: 1073 Message: 1078

--- In Racal6790GM@yahoogroups.com, "toptyp19" <toptyp19@...> wrote:
>
> Hello everyone-
>
> First let me say that I own a 6790/GM. I checked and
> there are no general Racal groups to ask so here goes.
> Help! I have a 1992 frequency counter in need of pushbutton
> switches. Does anyone out there know where I can obtain oh,
> say, 10 of them?? They can be used, of course; just usable.
> Or, does anyone know who manufactured them? Perhaps I can
> purchase them new if I can find out.
>
> Thanks for any info anybody can provide.
>
> Joe.
>

Hi Joe,

Remember that the 19 series counters were designed in the '80s and the last ones built in 2001, if memory serves! We were getting very short of parts then so you'll probably have great difficulty finding originals.

The only chance you might have is to contact EADS(UK) LTD. They took over what was left of the Racal Instruments group after it was split up (the mobile phone part went to Aeroflex and is now almost extinct).
Contact details:-
Address: 29-31, Cobham Rd, Ferndown, Dorset . BH21 7PF UK
Phone: +44(0)1202 872800
e-mail: helpdesk@...

If you're not too worried about the cosmetic aspects, virtually any SPST touch switch that will fit will work - absolutely nothing special electrically about them.

Best regards,
Nick

1079. Re: Racal 1992

Yahoo group: Racal6790GM
Date: 2008-05-30 12:59:58 UTC
From: Graham
Topic: 1077 Message: 1079

Hi Bill,

I'll swop you my very nice 1992 c/t for your 6790 ... :)

Thers quite a few about, I got one from ebay end last year , had a few dry joints round the power supply area ,it was tending to re-set for no apparant reason, Close inspection with eye-glass , a few hair line crack's, re made the joints and its working fine

I dont find it too clever at low audio frequency, ive a phillips thats more stable

G ..

--- In Racal6790GM@yahoogroups.com, "billw77aaz" <w7aaz@...> wrote:
>
> Oh GREAT, now in addition to having my RA6790GM to keep running,
> you're telling me my 1992 Counter is in danger of losing its life?
>
> I could stand losing the receiver a lot more than that counter. It is
> a gem.
>
> Bill - W7AAZ
>

1080. Re: 1992 frequency counter

Yahoo group: Racal6790GM
Date: 2008-05-29 14:25:46 UTC
From: toptyp19
Topic: 1073 Message: 1080

OUCH!

Thanks Dan for the information. I was afraid of that!
I've been searching the web for quite some time without luck.
Guess I'll have to buy up a parts unit if I can find one.

73, Joe-WA9LAE.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> toptyp19 wrote:
>
> >Hello everyone-
> >
> >First let me say that I own a 6790/GM. I checked and
> >there are no general Racal groups to ask so here goes.
> >Help! I have a 1992 frequency counter in need of pushbutton
> >switches. Does anyone out there know where I can obtain oh,
> >say, 10 of them?? They can be used, of course; just usable.
> >Or, does anyone know who manufactured them? Perhaps I can
> >purchase them new if I can find out.
> >
> >
> >
>
> Joe, you're out of luck.
>
> There was exhaustive discussion of these recently on the Time Nuts
> group. They were made by Toko originally and have not been available
> for years. Worse, there seems to be no drop in replacement currently
> available. The near equivalent ones I got from Jameco for mine are no
> longer available from them either.
>
> And now the really bad news: if any of them go then the rest will
follow
> shortly, so you will need all 33 (I think it is), not just ten.
>
> Sorry to ruin your day!
>
> Dan
> ac6ao / g3ncr
>

1081. Re: [Racal6790GM] Re: 1992 frequency counter

Yahoo group: Racal6790GM
Date: 2008-05-30 13:07:20 UTC
From: Dan Rae
Topic: 1073 Message: 1081

darcy_nick wrote:

>
>If you're not too worried about the cosmetic aspects, virtually any
>SPST touch switch that will fit will work - absolutely nothing special
>electrically about them.
>
>
That is exactly the problem of course, finding a switch that fits both
the buttons and the pcb holes. With the vast majority of new switches
being surface mount...
dr

1082. Re: 1992 frequency counter

Yahoo group: Racal6790GM
Date: 2008-05-30 16:15:22 UTC
From: toptyp19
Topic: 1073 Message: 1082

Thank you for the information Nick.
I'll drop them an e-mail and see what
they've got left for parts.
Joe.
>
> Hi Joe,
>
> Remember that the 19 series counters were designed in the '80s and the
> last ones built in 2001, if memory serves! We were getting very short
> of parts then so you'll probably have great difficulty finding
originals.
>
> The only chance you might have is to contact EADS(UK) LTD. They took
> over what was left of the Racal Instruments group after it was split
> up (the mobile phone part went to Aeroflex and is now almost extinct).
> Contact details:-
> Address: 29-31, Cobham Rd, Ferndown, Dorset . BH21 7PF UK
> Phone: +44(0)1202 872800
> e-mail: helpdesk@...
>
> If you're not too worried about the cosmetic aspects, virtually any
> SPST touch switch that will fit will work - absolutely nothing special
> electrically about them.
>
> Best regards,
> Nick
>

1083. Re: 1992 frequency counter

Yahoo group: Racal6790GM
Date: 2008-05-31 20:33:11 UTC
From: toptyp19
Topic: 1073 Message: 1083

I've sent along an e-mail to EADS(UK) Ltd asking about not only
the switches but any replacement parts availability. I had more
responses to my original post than expected so I'm assuming many
of the 6790 crew also have the 1992. If and when I get a response
I'll let everyone know. Thanks to one and all. These groups are
better than finding the prize in a Cracker Jack box!

73 for now...
Joe.

--- In Racal6790GM@yahoogroups.com, "toptyp19" <toptyp19@...> wrote:
>
>
> Thank you for the information Nick.
> I'll drop them an e-mail and see what
> they've got left for parts.
> Joe.
> >
> > Hi Joe,
> >
> > Remember that the 19 series counters were designed in the '80s and the
> > last ones built in 2001, if memory serves! We were getting very short
> > of parts then so you'll probably have great difficulty finding
> originals.
> >
> > The only chance you might have is to contact EADS(UK) LTD. They took
> > over what was left of the Racal Instruments group after it was split
> > up (the mobile phone part went to Aeroflex and is now almost extinct).
> > Contact details:-
> > Address: 29-31, Cobham Rd, Ferndown, Dorset . BH21 7PF UK
> > Phone: +44(0)1202 872800
> > e-mail: helpdesk@
> >
> > If you're not too worried about the cosmetic aspects, virtually any
> > SPST touch switch that will fit will work - absolutely nothing special
> > electrically about them.
> >
> > Best regards,
> > Nick
> >
>

1084. After-Market Case for 6790?

Yahoo group: Racal6790GM
Date: 2008-06-01 05:47:11 UTC
From: n6nc2007
Topic: 1084 Message: 1084

Does anyone know where to purchase an after-market case for the RA6790GM? 73, Larry N6NC

1085. Re: [Racal6790GM] After-Market Case for 6790?

Yahoo group: Racal6790GM
Date: 2008-06-01 12:59:46 UTC
From: Bob Betts
Topic: 1084 Message: 1085

Larry:
There are a few manufacturers that make very nice desk top cases. You can do a search on Desk Top Case, or Rack Case (3U size with at least 18" depth). You'll find a lot of Travel Cases too, but those are not very cosmetically appealing. I forget who it is (someone here remember?) who makes the steel case for Watkins-Johnson and Tentec. It's steel and very attractive...but expensive. I have used South Florida Cases (ebay) who make laminated wood cases. They are of nice quality, and since the Racal is already in a shielded enclosure, there is no need for metal, except for durability. If I remember the company - I'll be back.
PS: I am not associated with any of the above ;-)
Best,
Bob, N1KPR

n6nc2007 <hlserra@...> wrote:
Does anyone know where to purchase an after-market case for the
RA6790GM? 73, Larry N6NC

http://www.bobsamerica.com

1086. Re: [Racal6790GM] After-Market Case for 6790?

Yahoo group: Racal6790GM
Date: 2008-06-01 13:04:15 UTC
From: Bob Betts
Topic: 1084 Message: 1086

Sorry, it's South Florida Racks. If nothing is listed that fits, just contact them and inquire.
B

Bob Betts <rwbetts@...> wrote:
Larry:
There are a few manufacturers that make very nice desk top cases. You can do a search on Desk Top Case, or Rack Case (3U size with at least 18" depth). You'll find a lot of Travel Cases too, but those are not very cosmetically appealing. I forget who it is (someone here remember?) who makes the steel case for Watkins-Johnson and Tentec. It's steel and very attractive...but expensive. I have used South Florida Cases (ebay) who make laminated wood cases. They are of nice quality, and since the Racal is already in a shielded enclosure, there is no need for metal, except for durability. If I remember the company - I'll be back.
PS: I am not associated with any of the above ;-)
Best,
Bob, N1KPR

n6nc2007 <hlserra@...> wrote:
Does anyone know where to purchase an after-market case for the
RA6790GM? 73, Larry N6NC

http://www.bobsamerica.com

http://www.bobsamerica.com

1087. Re: 1992 frequency counter

Yahoo group: Racal6790GM
Date: 2008-06-02 22:05:48 UTC
From: toptyp19
Topic: 1073 Message: 1087

First, I want to apologize for posting this in the 6790 group
but I really couldn't find anywhere else remotely associated with
the 1992 counter.

I sent out an e-mail to EADS (U.K.) not really expecting much of
a response. Well, I've received two; from two separate divisions
apparantly. The first was from Mr. Neil Jolley, customer support,
EADS Test & Services (U.K.), Ltd. He tells me that yes, the part
number 23-4125 pushbutton switch is available and that they have
"lots of them". He asked me my location which I e-mailed back and
also inquired the unit price. I've yet to receive his response.

The second was from Ms. Anna Whetham, Applications Engineer, Racal
Instruments, EADS-North American Defense, Test & Services. She says
that the switches are obsolete and unavailable as the manufacturer
is out of business.

As Alice would say "curiouser and curiouser!"

Hopefully, I'll receive a positive response from Neil and will
inform the group. Otherwise, I'll just keep scratching my head.....

Thanks to everyone for their patience.

Joe.

--- In Racal6790GM@yahoogroups.com, "toptyp19" <toptyp19@...> wrote:
>
> Hello everyone-
>
> First let me say that I own a 6790/GM. I checked and
> there are no general Racal groups to ask so here goes.
> Help! I have a 1992 frequency counter in need of pushbutton
> switches. Does anyone out there know where I can obtain oh,
> say, 10 of them?? They can be used, of course; just usable.
> Or, does anyone know who manufactured them? Perhaps I can
> purchase them new if I can find out.
>
> Thanks for any info anybody can provide.
>
> Joe.
>

1088. A6A2 Board

Yahoo group: Racal6790GM
Date: 2008-06-06 01:37:36 UTC
From: scm325
Topic: 1088 Message: 1088

Yee Haw!!!! It works!!!!

Thanks to Gary I got my micro board going...it was a defective xtal all along...Gary had a replacement. Opened the old xtal up & one of the little circular finger deals was just touching / resting on one side of the xtal blank...thats why when I tapped on it it would run sometimes & sometimes not...reconnected it & it took off running...gently soldered the xtal cover back on & no joy, opened it back up & the finger had popped loose again...noticed that the other side had a tiny dot of solder on it & tried that on the loose side, but it wouldn't take. Anyway Gary had one & that fixed it.

Thanks again Gary & to the others that posted helpful hints, suggestions & other info....now onto the other sections...have to do a little on the A8 board(no BFO freq change...stuck at 503.6 Khz...display changes but freq won't...gives an 04 during the BITE) & got some work to do on the A4 board (can't select the filters & the recovered audio is low). The A2 board is dead also.

Steve
WD4GYN

1089. FS: RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-05 23:16:24 UTC
From: eikchuc
Topic: 1089 Message: 1089

Greetings,
I have for sale a Racal RA6790/GM in very good condition. It has the .4, 2.1, 5, 7.5 and 18khz filters. VLF chipset, pre-amp, cable(for computerhook-up) good copy of manual with schematics. This is pick-up only in Trenton,NJ. $800 firm. Thanks. Chuck...wa2onk

1090. Re: 1992 frequency counter

Yahoo group: Racal6790GM
Date: 2008-06-06 23:38:58 UTC
From: toptyp19
Topic: 1073 Message: 1090

Just a quick update. I have not heard from either Neil or Anna
as yet. This was all probably a "wild goose chase" but I'll be
optimistic and wait through next week for any responses.
Have a great weekend everyone.
Joe.

--- In Racal6790GM@yahoogroups.com, "toptyp19" <toptyp19@...> wrote:
>
> First, I want to apologize for posting this in the 6790 group
> but I really couldn't find anywhere else remotely associated with
> the 1992 counter.
>
> I sent out an e-mail to EADS (U.K.) not really expecting much of
> a response. Well, I've received two; from two separate divisions
> apparantly. The first was from Mr. Neil Jolley, customer support,
> EADS Test & Services (U.K.), Ltd. He tells me that yes, the part
> number 23-4125 pushbutton switch is available and that they have
> "lots of them". He asked me my location which I e-mailed back and
> also inquired the unit price. I've yet to receive his response.
>
> The second was from Ms. Anna Whetham, Applications Engineer, Racal
> Instruments, EADS-North American Defense, Test & Services. She says
> that the switches are obsolete and unavailable as the manufacturer
> is out of business.
>
> As Alice would say "curiouser and curiouser!"
>
> Hopefully, I'll receive a positive response from Neil and will
> inform the group. Otherwise, I'll just keep scratching my head.....
>
> Thanks to everyone for their patience.
>
> Joe.
>
> --- In Racal6790GM@yahoogroups.com, "toptyp19" <toptyp19@> wrote:
> >
> > Hello everyone-
> >
> > First let me say that I own a 6790/GM. I checked and
> > there are no general Racal groups to ask so here goes.
> > Help! I have a 1992 frequency counter in need of pushbutton
> > switches. Does anyone out there know where I can obtain oh,
> > say, 10 of them?? They can be used, of course; just usable.
> > Or, does anyone know who manufactured them? Perhaps I can
> > purchase them new if I can find out.

> >
> > Thanks for any info anybody can provide.
> >
> > Joe.
> >
>

1091. No-transmit auto antenna tuner for RA6790?

Yahoo group: Racal6790GM
Date: 2008-06-10 03:49:32 UTC
From: n6nc2007
Topic: 1091 Message: 1091

Hello All-

Has anyone encountered a no-transmit automatic anntenna tune which might work off the 6790's local oscillator? I am trying to automate a set up and virtually all of the auto-tuners require RF output to tune to a frequecny. I'm looking for one that will work off the 6790 alone without RF output.

Thanks and 73,

Larry N6NC

1092. RE: [Racal6790GM] No-transmit auto antenna tuner for RA6790?

Yahoo group: Racal6790GM
Date: 2008-06-10 12:34:18 UTC
From: Carcia, Francis A HS
Topic: 1091 Message: 1092

I use a receiver to set up my antenna tuner by adding a 6 dB pad in series with the antenna forcing the input Z of the RX to 50 ohms. Then I just tune for maximum background noise. This gets me very close when I go to TX. An automatic antenna tuner could be set up to do the same thing rather than a VSWR null in TX. wa1gfz

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of n6nc2007
Sent: Monday, June 09, 2008 11:50 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] No-transmit auto antenna tuner for RA6790?

Hello All-

Has anyone encountered a no-transmit automatic anntenna tune which might work off the 6790's local oscillator? I am trying to automate a set up and virtually all of the auto-tuners require RF output to tune to a frequecny. I'm looking for one that will work off the 6790 alone without RF output.

Thanks and 73,

Larry N6NC

1093. Antenna Matching

Yahoo group: Racal6790GM
Date: 2008-06-10 19:59:05 UTC
From: TC Dailey
Topic: 1093 Message: 1093

Best trick yet is tune for max noise - passing that, any of the MFJ analyzers into a matching ckt (tuner), tuned for min-swr,then removed, works swell. Of course, coming from the "wet piece of string should work" crowd, back in 1958... "if you can hear it, it's working".

Tom

1094. Re:Antenna Matching

Yahoo group: Racal6790GM
Date: 2008-06-11 17:45:55 UTC
From: H Lawrence Serra
Topic: 1093 Message: 1094

Agree max noise is the easiet way to tune, but I am trying to automate the tuning. I have a Palomar Engineer's Tuner-Tuner which allows me to tune for max noise. This is easy to do by ear, but the auto-tune circuit of the tuner seaches for minimum VSWR, not max audio noise.

I will ask Jack at Palomar if he can design a small circuit which would feed the existing minimum VSWR circuit of the tuner with some analog based on hearing maximum audio noise from the rcvr with the Tuner-Tuner noise generator in line.

73, Larry N6NC

1095. Re: [Racal6790GM] Re:Antenna Matching

Yahoo group: Racal6790GM
Date: 2008-06-12 00:52:18 UTC
From: TC Dailey
Topic: 1093 Message: 1095

Be VERY CAREFUL with that Palomar tuner-tuner. It puts out enough RF to wipe out coupling capacitors of counters, and there's a good chance it'd do the same with FET's... I know.

TC

1096. Racal Parts on Ebay

Yahoo group: Racal6790GM
Date: 2008-06-15 21:42:07 UTC
From: bigmacinplano
Topic: 1096 Message: 1096

Well I'm about down to the last of my Racal parts. Listed on Ebay at
http://search.ebay.com/_W0QQsassZmacinplano

May have a few more boards, stuff seems to breed in the house someplace.
The part boards list may be OK if you put your 20 Khz filter on them.I
had a couple which I did this and they played. If nothing else they
have mixers in some cases and other usefully parts.
Richard
K5WOR

1097. Re: [Racal6790GM] Racal Parts on Ebay

Yahoo group: Racal6790GM
Date: 2008-06-15 22:02:03 UTC
From: mparkinson1
Topic: 1096 Message: 1097

I am looking for the CPU board that has not been damaged by the battery leaching out on to it do you have one of those???
Matt Parkinson Military Equipment & R 390A Depot Center

1098. Re: Racal Parts on Ebay

Yahoo group: Racal6790GM
Date: 2008-06-19 02:13:25 UTC
From: scm325
Topic: 1096 Message: 1098

What happened to your auctions?

SCM325

--- In Racal6790GM@yahoogroups.com, "bigmacinplano" <K5wor@...> wrote:
>
> Well I'm about down to the last of my Racal parts. Listed on Ebay at
> http://search.ebay.com/_W0QQsassZmacinplano
>
> May have a few more boards, stuff seems to breed in the house
someplace.
> The part boards list may be OK if you put your 20 Khz filter on
them.I
> had a couple which I did this and they played. If nothing else they
> have mixers in some cases and other usefully parts.
> Richard
> K5WOR
>

1099. Re: Racal Parts on Ebay

Yahoo group: Racal6790GM
Date: 2008-06-20 03:26:48 UTC
From: Richard
Topic: 1096 Message: 1099

Well I am sorry about this. EBay pulled the auctions because another Ham who lives in this area was bidding on the auction and they deemed them as my "SHILL". Interesting however is he has won and paid for auctions he has won in the past! I have written an Email to them and have gotten a automated return.
The good news is they have restricted my account for 14 days at which time I can relist the items. I can relist them now but only at fixed price... "buy it now". Seems like a lot of BS I guess but, you have a hard time talking with a real person and it's like telling the police officer you really were not speeding. Sometime it's just easier to go a long and forget it.
Richard

1100. Digital Radio Mondiale (DRM)

Yahoo group: Racal6790GM
Date: 2008-06-20 03:35:01 UTC
From: n6nc2007
Topic: 1100 Message: 1100

Hello All-

Has anyone found or built an adaptor to use the 6790 to receive Digital Radio Mondiale?

73, Larry N6NC

1101. Digital Radio Mondiale (DRM)

Yahoo group: Racal6790GM
Date: 2008-06-20 03:36:40 UTC
From: n6nc2007
Topic: 1100 Message: 1101

Hello All-

Has anyone found or built an adaptor to use the 6790 to receive Digital Radio Mondiale?

73, Larry N6NC

1102. Re: [Racal6790GM] Re: Racal Parts on Ebay

Yahoo group: Racal6790GM
Date: 2008-06-20 04:09:30 UTC
From: TC Dailey
Topic: 1096 Message: 1102

I join with many others who DESPISE Ebite... they may as well have a picture of Lenin in their break-room... they sure act like him.

TC - WØEAJ

1103. Re: Digital Radio Mondiale (DRM)

Yahoo group: Racal6790GM
Date: 2008-06-20 11:14:17 UTC
From: Graham
Topic: 1100 Message: 1103

Larry,

I got a ready made mixer from ebay, its only about 1 inch square on a pcb , takes the 455 khz and dropps down to audio, i feed it to a usb out board sound card , works fine with the ~ 20Khz wide filter

I think it came from this guy , >

http://search.ebay.com/_W0QQsassZi5xww

He's got what looks like a 10.7 mhz one on at the moment , but the board looks the same , mine only has a lc oscillator , but works nice ly

G ..

--- In Racal6790GM@yahoogroups.com, "n6nc2007" <hlserra@...> wrote:
>
> Hello All-
>
> Has anyone found or built an adaptor to use the 6790 to receive Digital
> Radio Mondiale?
>
> 73, Larry N6NC
>

1104. Re:Antenna Matching

Yahoo group: Racal6790GM
Date: 2008-06-11 17:55:59 UTC
From: Graham
Topic: 1093 Message: 1104

Do you need the ae tuner , ? , tuned ae's just make more noise ,
which inturn, loweres the rx performance ?

G ..

--- In Racal6790GM@yahoogroups.com, H Lawrence Serra <hlserra@...>
wrote:
>
> Agree max noise is the easiet way to tune, but I am trying to
automate the tuning. I have a Palomar Engineer's Tuner-Tuner which
allows me to tune for max noise. This is easy to do by ear, but the
auto-tune circuit of the tuner seaches for minimum VSWR, not max
audio
noise.
>
> I will ask Jack at Palomar if he can design a small circuit which
would feed the existing minimum VSWR circuit of the tuner with some
analog based on hearing maximum audio noise from the rcvr with the
Tuner-Tuner noise generator in line.
>
> 73, Larry N6NC
>

1105. RE: [Racal6790GM] Re: Digital Radio Mondiale (DRM)

Yahoo group: Racal6790GM
Date: 2008-06-20 14:14:53 UTC
From: Carcia, Francis A HS
Topic: 1100 Message: 1105

Get yourself a softrock kit and feed I/Q into your sound card using Flex software and demodulate anything with the added feature of a beautiful spectrum display. Cost is about 12 bucks. I have the 455 KHz from my RA6830 going through an I/Q Demodulator into a computer. Very cool addition that is very low cost. Good way to get into SDR functions for almost no money. Flex software is a free download. wa1gfz

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Graham
Sent: Friday, June 20, 2008 7:14 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Digital Radio Mondiale (DRM)

Larry,

I got a ready made mixer from ebay, its only about 1 inch square on a pcb , takes the 455 khz and dropps down to audio, i feed it to a usb out board sound card , works fine with the ~ 20Khz wide filter

I think it came from this guy , >

http://search.ebay.com/_W0QQsassZi5xww
<http://search.ebay.com/_W0QQsassZi5xww>

He's got what looks like a 10.7 mhz one on at the moment , but the board looks the same , mine only has a lc oscillator , but works nice ly

G ..

--- In Racal6790GM@yahoogroups.com
<mailto:Racal6790GM%40yahoogroups.com> , "n6nc2007" <hlserra@...> wrote:
>
> Hello All-
>
> Has anyone found or built an adaptor to use the 6790 to receive
Digital
> Radio Mondiale?
>
> 73, Larry N6NC
>

1106. RE: [Racal6790GM] Digital Radio Mondiale (DRM)

Yahoo group: Racal6790GM
Date: 2008-06-20 14:17:20 UTC
From: Carcia, Francis A HS
Topic: 1100 Message: 1106

softrock40@yahoogroups.com

Check this out. Just order a softrock kit for 455 KHz input. Takes a few hours to assemble and runs off 5 volts. wa1gfz

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of n6nc2007
Sent: Thursday, June 19, 2008 11:37 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Digital Radio Mondiale (DRM)

Hello All-

Has anyone found or built an adaptor to use the 6790 to receive Digital Radio Mondiale?

73, Larry N6NC

1107. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2008-06-21 02:20:18 UTC
From: mparkinson1
Topic: 570 Message: 1107

Hey Todd
did you ever make up those boards for the filter arrange ments.
I just got 9 Ra 6790 receivers and they need a lot of work plus they need filters to boot.
Got any pictures.
Thanks
Matt Parkinson Military Equipment & R 390A Depot Center

1108. FS: RA-6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-21 14:27:31 UTC
From: eikchuc
Topic: 1108 Message: 1108

Racal 6790GM receiver in very good condition. Displays are crisp and clear. This unit has the optional preamp and chipset installed to cover VLF. Filters for .4, 2.1, 5, 7.5 and 18khz. Cable included for interfacing with computer. Good copy of complete manual with schematics. Rx works as it should. Prefer local pick-up, will pack and ship at buyers expense, CONUS only. $800. Chuck...

1109. One answer for all zeros in the display

Yahoo group: Racal6790GM
Date: 2008-06-22 15:36:56 UTC
From: Dan Rae
Topic: 1109 Message: 1109

I had an RA6790/GM suddenly do the all zeros thing to me yesterday while testing some eproms.

This was an odd one; a failure mode I have never seen before. When I started probing round the Osc and _not reset_ pins of the CPU to see what was happening or not happening, the thing suddenly came to life.

With a powerful magnifying glass I could see what looked like a tiny metallic flake that was touching two adjacent pins. A blow of high pressure air got rid of it. Examining the pins of the cpu and probing them gently with a dental pick I could see the same flakes coming off from all the pins. It looked like the pins had been (tin?) plated and that the plating was coming off all of them when disturbed.

The adjacent SMI IC was fine, it is just the CPU that had the problem. It seems to have been unharmed by the short, luckily.

I have never heard of this syndrome before; but is certainly another one to look for when presented with the dreaded all zeros.

Dan
ac6ao

1110. Re: One answer for all zeros in the display

Yahoo group: Racal6790GM
Date: 2008-06-22 16:53:33 UTC
From: Graham
Topic: 1109 Message: 1110

Dan,

Well , suppose that shows how old the 'kit is getting ! my marine set suffers from the pins on the chips 'rusting away' after a little salt water contamination .

I was supprised to find the IC pins where plated steel, but it looks like the ic holders are bronze or similar

May be a quick clean and a spray of 'confromal coating' may stop any more plating from dropping off ?

G ..

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> I had an RA6790/GM suddenly do the all zeros thing to me yesterday while
> testing some eproms.
>
> This was an odd one; a failure mode I have never seen before. When I
> started probing round the Osc and _not reset_ pins of the CPU to see
> what was happening or not happening, the thing suddenly came to life.
>
> With a powerful magnifying glass I could see what looked like a tiny
> metallic flake that was touching two adjacent pins. A blow of high
> pressure air got rid of it. Examining the pins of the cpu and probing
> them gently with a dental pick I could see the same flakes coming off
> from all the pins. It looked like the pins had been (tin?) plated and
> that the plating was coming off all of them when disturbed.
>
> The adjacent SMI IC was fine, it is just the CPU that had the problem.
> It seems to have been unharmed by the short, luckily.
>
> I have never heard of this syndrome before; but is certainly another one
> to look for when presented with the dreaded all zeros.
>

> Dan
> ac6ao
>

1111. Re: [Racal6790GM] One answer for all zeros in the display

Yahoo group: Racal6790GM
Date: 2008-06-22 15:46:10 UTC
From: FRANCIS CARCIA
Topic: 1109 Message: 1111

Dan,
Tin causes a common problem. It grows in strands in time. I've seen it detune cavity oscillators to a point where they fail. gfz

Dan Rae <danrae@...> wrote:
I had an RA6790/GM suddenly do the all zeros thing to me yesterday while testing some eproms.

This was an odd one; a failure mode I have never seen before. When I started probing round the Osc and _not reset_ pins of the CPU to see what was happening or not happening, the thing suddenly came to life.

With a powerful magnifying glass I could see what looked like a tiny metallic flake that was touching two adjacent pins. A blow of high pressure air got rid of it. Examining the pins of the cpu and probing them gently with a dental pick I could see the same flakes coming off from all the pins. It looked like the pins had been (tin?) plated and that the plating was coming off all of them when disturbed.

The adjacent SMI IC was fine, it is just the CPU that had the problem. It seems to have been unharmed by the short, luckily.

I have never heard of this syndrome before; but is certainly another one to look for when presented with the dreaded all zeros.

Dan
ac6ao

1112. Re: [Racal6790GM] One answer for all zeros in the display

Yahoo group: Racal6790GM
Date: 2008-06-22 21:49:59 UTC
From: Dan Rae
Topic: 1109 Message: 1112

FRANCIS CARCIA wrote:
> Dan,
> Tin causes a common problem. It grows in strands in time.
I don't think this was the same Frank, doesn't that happen with lead free solder? This was on the top of the board on the part of the pins where there was no solder, tin / lead or whatever variety they used 20 plus years ago. I'm pretty sure it was the plating coming off the pins themselves. All the loose bits have gone now anyway and it's still playing happily...

I'm just relieved I don't have to change out the IC!

Dan

1113. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2008-06-23 13:41:38 UTC
From: oscar873@aol.com
Topic: 570 Message: 1113

Matt,
9 Nine??
Where?
Al

-----Original Message-----
From: mparkinson1 <mparkinson1@...>
To: Racal6790GM@yahoogroups.com
Sent: Fri, 20 Jun 2008 7:20 pm
Subject: Re: [Racal6790GM] My first 6790/gm's

Hey Todd

did you ever make up those boards for the filter arrange ments.

I just got 9 Ra 6790 receivers and they need a lot of work plus they need filters to boot.

Got any pictures.

Thanks

Matt Parkinson Military Equipment & R 390A Depot Center

1114. Re: [Racal6790GM] My first 6790/gm's

Yahoo group: Racal6790GM
Date: 2008-06-23 14:23:30 UTC
From: gewingerd@netzero.com
Topic: 570 Message: 1114

7883-1 400 Hz Mechanical Filter less coupling caps 50.00 Each plus shipping
7883-2 1 KHz Mechanical Filter less coupling caps $50.00 Each plus shipping
7883-3 6 KHz Mechanical Filter less coupling caps $50.00 Each plus shipping
8408 6.8 KHz Crystal Filter $50.00 Each plus shipping
8414 6.8 KHz Crystal Filter $50.00 Each plus shipping
8420 6 KHz Crystal Filter $50.00 Each plus shipping
8699 150 Hz Crystal Filter $50.00 Each plus shipping
1600121 3 KHz Crystal Filter $50.00 Each plus shipping
1600159 6 KHz Crystal Filter $50.00 Each plus shipping
3600005 6 KHz Crystal Filter $50.00 Each plus shipping

Frequency LCD Display RA6790/GM $50.00 Each plus shipping
Mode LCD Display RA6790/GM and RA6793 $50.00 Each plus shipping
Frequency LCD Display RA6793, RA6793A and RA6793A-6 $75.00 Each plus shipping

Battery Micro-card BT1 $10.00 Each plus shipping

9666 Software $45.00 Each plus shipping

RS232 Remote Connector $50.00 Each plus shipping
RS232 Remote Cable Assembly $105.00 Each plus shipping

LED Board KIT $50.00 Each plus shipping
LED Board for the Front Panel Complete $75.00 Each plus shipping

FET Card KIT for A2 Mixer Box with Instructions & Drawings $100.00 Each plus shipping

Right Front Panel Frequency Keypad $45.00 Each plus shipping

GARY E. WINGERD
9107 JORDAN RD.
FAIRPLAY, MD 21733

GEWINGERD@...

Save up to 10% - 30% on Visual Basic. Click here.
http://thirdpartyoffers.netzero.net/TGL2241/fc/Ioyw6i4s6GnDcOZdybeEDx4eRhcZhoZfgirVI7wPcDJjLQDCI1dlLr/

1115. LF/VLF Conversion of 6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-24 05:49:44 UTC
From: penguin2004au
Topic: 1115 Message: 1115

Hi All:
I would like to know what is involved in modifying the 6790 to
receive below 500kHz and what sort of performer the radio is at these
frequencies.
Can anybody offer some information on this?

Regards: John Foster.

1116. Re: [Racal6790GM] LF/VLF Conversion of 6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-24 09:21:40 UTC
From: gewingerd@netzero.com
Topic: 1115 Message: 1116

John,

You have to change the A2 card to a 8966-x and change 1 resistor on the A7 card. Unit has a spec of -113 dBm for 10 db signal to noise and with the correct card the receiver will go down to 20 KHz and you will get 10 db at -113 dBm.
The fellow in Canada at Toronto Surplus had a stock of the cards at one time.

Thanks,
Gary

_____
Summer Spa Sweepstakes
Enter for your chance to WIN a Summer Spa Vacation!
http://thirdpartyoffers.netzero.net/TGL2241/fc/JKFkuJkEPzy7D8N0hQPfeZ2f8M9qJDoWDNCL9ZP3Bl9OAXzbfVy5od/

1117. Re: [Racal6790GM] LF/VLF Conversion of 6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-24 13:12:52 UTC
From: Dan Rae
Topic: 1115 Message: 1117

penguin2004au wrote:
> Hi All:
> I would like to know what is involved in modifying the 6790 to
> receive below 500kHz and what sort of performer the radio is at these
> frequencies.
> Can anybody offer some information on this?
>
> Regards: John Foster.
>
>

John, by simply changing the firmware eproms, you can get good receive performance down to 150 kHz and reduced performance below that.

The regular LF eprom set is the A09666 version. There is also another version with what I consider to be much nicer, in the sense of user friendly, tuning steps of 1, 10 and 100 Hz, but I'm not sure of the racal part number for that, mine are anonymous.

I have an original VLF example here which has a different A2 card, fitted with a 16 kHz roofer, a different mixer and some extra filtering in the LO chain, also an A3 card fitted with an 8 kHz roofer. In addition the A7 card has a resistor changed to give slightly more LO drive. This is specified down to 15 kHz.

So, you can get MF / LF with just a firmware change. VLF is a different story.

Dan
ac6ao

1118. RE: [Racal6790GM] LF/VLF Conversion of 6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-24 13:16:21 UTC
From: Carcia, Francis A HS
Topic: 1115 Message: 1118

anybody have a spare 8 KHz roofer?

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Dan Rae
Sent: Tuesday, June 24, 2008 9:13 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] LF/VLF Conversion of 6790/GM

penguin2004au wrote:
> Hi All:
> I would like to know what is involved in modifying the 6790 to
> receive below 500kHz and what sort of performer the radio is at these
> frequencies.
> Can anybody offer some information on this?
>
> Regards: John Foster.
>
>

John, by simply changing the firmware eproms, you can get good receive performance down to 150 kHz and reduced performance below that.

The regular LF eprom set is the A09666 version. There is also another version with what I consider to be much nicer, in the sense of user friendly, tuning steps of 1, 10 and 100 Hz, but I'm not sure of the racal part number for that, mine are anonymous.

I have an original VLF example here which has a different A2 card, fitted with a 16 kHz roofer, a different mixer and some extra filtering in the LO chain, also an A3 card fitted with an 8 kHz roofer. In addition the A7 card has a resistor changed to give slightly more LO drive. This is specified down to 15 kHz.

So, you can get MF / LF with just a firmware change. VLF is a different story.

Dan
ac6ao

1119. Re: [Racal6790GM] LF/VLF Conversion of 6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-24 13:17:45 UTC
From: TC Dailey
Topic: 1115 Message: 1119

I can't recall where I found it, other than a google search, but you can do it on the keypad...pretty simple as I recall.

Tom

1120. Re: [Racal6790GM] LF/VLF Conversion of 6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-24 13:23:31 UTC
From: Dan Rae
Topic: 1115 Message: 1120

Carcia, Francis A HS wrote:
> anybody have a spare 8 KHz roofer?
>
> ---
> **
Kmec who sells on eBay had a few 8 kHz 40.455 roofers which I suspect
were rejects from W-J. By opening them up and tweaking the adjustments
inside I was able to get them sort of working, but not well enough,
still a lopsided passband. They do not fit in the 6790 board directly
anyway so a bit of a bust altogether!
Dan.

1121. Re: [Racal6790GM] LF/VLF Conversion of 6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-24 13:42:57 UTC
From: Bob Betts
Topic: 1115 Message: 1121

Hi Tom and All:
Mine (tks Tom) is superb down in the LF band. I do some 'lowfer' transmitting/receiving down there (6790 and homebrew xmitter), and NDBs for propagation measurements. I have no idea what upgrades or the ROM numbers are, but will check if someone tells me what to look for.
Bob, N1KPR

TC Dailey <daileyservices@...> wrote:
I can't recall where I found it, other than a google search, but you can do it on the keypad...pretty simple as I recall.

Tom

http://www.bobsamerica.com

1122. RE: [Racal6790GM] LF/VLF Conversion of 6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-24 16:00:37 UTC
From: Carcia, Francis A HS
Topic: 1115 Message: 1122

I have a couple that the CF is low

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Dan Rae
Sent: Tuesday, June 24, 2008 9:24 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] LF/VLF Conversion of 6790/GM

Carcia, Francis A HS wrote:
> anybody have a spare 8 KHz roofer?
>
> --
> **
Kmec who sells on eBay had a few 8 kHz 40.455 roofers which I suspect
were rejects from W-J. By opening them up and tweaking the adjustments
inside I was able to get them sort of working, but not well enough,
still a lopsided passband. They do not fit in the 6790 board directly
anyway so a bit of a bust altogether!
Dan.

1123. Re: [Racal6790GM] LF/VLF Conversion of 6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-24 19:28:42 UTC
From: toddroberts2001@aol.com
Topic: 1115 Message: 1123

In a message dated 6/24/2008 1:50:02 A.M. Eastern Daylight Time,
jfos5553@... writes:
Hi All:
I would like to know what is involved in modifying the 6790 to
receive below 500kHz and what sort of performer the radio is at these
frequencies.
Can anybody offer some information on this?

Regards: John Foster.

Hi John,
As Dan AC6AO mentioned, installing the AO9666-type eprom sets in the 6790
will enable good reception down to 150KHz and probably a little lower. But
without spending too much time and money another good way to enable LF/VLF
receive below 500KHz
is to use a high-quality VLF converter and lowpass filter in front of the
receiver.

If you are interested in good VLF receive down to as low as 10KHz a high
quality VLF converter
will solve many problems at lower expense than trying to replace the 6790
first mixer A2 board with the
hard-to-find VLF version and the other small changes recommended.

Many other premium receivers like the Harris RF-590 list their tuning range
sometimes down to 10KHz or even 5KHz but they almost always say performance
is degraded much below 50KHz. It is hard to design a first mixer that is
linear from 30MHz or so all the way down to 10KHz. Other things like apparent
synthesizer noise can increase below 50 - 60KHz also.

A VLF converter up-converts the 0-500KHz to the range of perhaps 3.0-3.5
MHz. This avoids problems
with the first mixer and synthesizer operating close to the Local Oscillator
frequency. I have made several copies of the AMRAD VLF converter with a 3MHz
LO and it improves reception below 60KHz with every receiver I have used it
with so far, even ones that already list their tuning range down to VLF.

73 Todd WD4NGG

**********Gas prices getting you down? Search AOL Autos for
fuel-efficient used cars. (http://autos.aol.com/used?ncid=aolaut00050000000007)

1124. Re: [Racal6790GM] LF/VLF Conversion of 6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-24 21:05:46 UTC
From: FRANCIS CARCIA
Topic: 1115 Message: 1124

It is pretty easy to get a mixer to perform down to audio. Just swap the IF port with the RF port. Feed the antenna signal through a balun into the IF port that works down to DC. Use coupling caps so static on the antenna doesn't blow the diodes. Also should use a limiter to further protect the mixer. wa1gfz
toddroberts2001@... wrote: In a message dated 6/24/2008 1:50:02 A.M. Eastern Daylight Time,
jfos5553@... writes:
Hi All:
I would like to know what is involved in modifying the 6790 to
receive below 500kHz and what sort of performer the radio is at these
frequencies.
Can anybody offer some information on this?

Regards: John Foster.

Hi John,
As Dan AC6AO mentioned, installing the AO9666-type eprom sets in the 6790
will enable good reception down to 150KHz and probably a little lower. But
without spending too much time and money another good way to enable LF/VLF
receive below 500KHz
is to use a high-quality VLF converter and lowpass filter in front of the
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If you are interested in good VLF receive down to as low as 10KHz a high
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hard-to-find VLF version and the other small changes recommended.

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linear from 30MHz or so all the way down to 10KHz. Other things like apparent
synthesizer noise can increase below 50 - 60KHz also.

A VLF converter up-converts the 0-500KHz to the range of perhaps 3.0-3.5
MHz. This avoids problems
with the first mixer and synthesizer operating close to the Local Oscillator
frequency. I have made several copies of the AMRAD VLF converter with a 3MHz
LO and it improves reception below 60KHz with every receiver I have used it
with so far, even ones that already list their tuning range down to VLF.

73 Todd WD4NGG

**********Gas prices getting you down? Search AOL Autos for
fuel-efficient used cars. (http://autos.aol.com/used?ncid=aolaut00050000000007)

1125. Re: LF/VLF Conversion of 6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-24 15:50:36 UTC
From: Graham
Topic: 1115 Message: 1125

Gary,

What is the resistor change to the A7 card ? , I fiited the lf front end and the proms from you , a long time ago, but dont recall any components change ? Still using the wide roofing filter, smaller one would prevent reception of 'drm' signals on hf

what is the reason for the A7 change ??

tnx - G ..

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> John,
>
> You have to change the A2 card to a 8966-x and change 1 resistor on the A7 card. Unit has a spec of -113 dBm for 10 db signal to noise and with the correct card the receiver will go down to 20 KHz and you will get 10 db at -113 dBm.
> The fellow in Canada at Toronto Surplus had a stock of the cards at one time.
>
> Thanks,
> Gary
>
> _____
> Summer Spa Sweepstakes
> Enter for your chance to WIN a Summer Spa Vacation!
>
http://thirdpartyoffers.netzero.net/TGL2241/fc/JKFkuJkEPzy7D8N0hQPfeZ2f8M9qJDoWDNCL9ZP3Bl9OAXzbfVy5od/
>

1126. Re: [Racal6790GM] LF/VLF Conversion of 6790/GM

Yahoo group: Racal6790GM
Date: 2008-06-25 02:44:33 UTC
From: John Foster
Topic: 1115 Message: 1126

Hi Gary:
I guess my post was a bit misleading, I would be happy
to get down to say 150kHz, which another post claims to be possible
with an eprom change. If this is correct do you have the eproms, and
is this all you have to do?

Regards: John.

>John,
>
> You have to change the A2 card to a 8966-x and change 1 resistor
> on the A7 card. Unit has a spec of -113 dBm for 10 db signal to
> noise and with the correct card the receiver will go down to 20 KHz
> and you will get 10 db at -113 dBm.
>The fellow in Canada at Toronto Surplus had a stock of the cards at one time.
>
>Thanks,
>Gary
>
>_____
>Summer Spa Sweepstakes
>Enter for your chance to WIN a Summer Spa Vacation!
>http://thirdpartyoffers.netzero.net/TGL2241/fc/JKFkuJkEPzy7D8N0hQPfeZ2f8M9qJDoWDNCL9ZP3Bl
9OAXzbfVy5od/
>
>---
>
>Yahoo! Groups Links
>
>
>

1127. A2 Boards

Yahoo group: Racal6790GM
Date: 2008-06-26 01:58:48 UTC
From: scm325
Topic: 1127 Message: 1127

I have several different A2 boards and was wondering can anybody ID them via the part #s and tell me more about them.

A08368

A08966..this is the one mentioned a few posts ago

A07215

A07830

A06895

Thanks,
Steve

1128. Forwarded Email

Yahoo group: Racal6790GM
Date: 2008-06-30 23:13:22 UTC
From: maxhdrm2
Topic: 1128 Message: 1128

Dear Members
I just received this e-mail. I am sure there is someone in the group who can help this gentleman.
Max

Hi,

I am liquidating an estate for a friend of mine. He had a 6790 in a rack and the front panel looks nice. I am unsure of any particulars about it, but would like to see it go to someone who appreciates Racal. Could you or someone else post the information on the group to see if anyone has an interest.

I will pull it out of the rack and check to see what filters and other information plus send pictures of the unit if anyone is interested. If they would give directions as to what to look for, I will try my best for them. I am not a member of the group and do not wish to join just to post one time, I don't feel that would be appropriate.

Any help or directions you will give would be appreciated.

Jim/W5JO

w5jo@...

1129. RA6790 frequency reports

Yahoo group: Racal6790GM
Date: 2008-07-06 16:32:15 UTC
From: n6nc2007
Topic: 1129 Message: 1129

Hi All-

Is there some way to command the RA6790 to report its frequency without supressing the leading and trailing zeroes when queried for frequency information? It is screwing up my CW Skimmer connection, because the skimmer software needs to know the exact length in digits (bits) of the frequency report sent by the RA6790, but this length varies depending on whether there are leading or trailing zeroes in the frequency reported.

73, Larry N6NC

1130. Re: RA6790 frequency reports

Yahoo group: Racal6790GM
Date: 2008-07-09 12:14:34 UTC
From: Graham
Topic: 1129 Message: 1130

--- In Racal6790GM@yahoogroups.com, "n6nc2007" <hlserra@...> wrote:
>
> Hi All-
>
> Is there some way to command the RA6790 to report its frequency
without
> supressing the leading and trailing zeroes when queried for frequency
> information? It is screwing up my CW Skimmer connection, because the
> skimmer software needs to know the exact length in digits (bits) of
the
> frequency report sent by the RA6790, but this length varies depending
> on whether there are leading or trailing zeroes in the frequency
> reported.
>
> 73, Larry N6NC
>

Don't think you can change how the set work's ? may be the skimmer
software could bring out a patch , from memory, when i used the 'gui'
software, by w6 ? control for the radio, it displayed the
frrequency 'ok', ive not tried with any others.

G ..

1131. Any info on RA3721 , 2 , 3 , 4 . Wide band Rx ?

Yahoo group: Racal6790GM
Date: 2008-07-10 21:30:33 UTC
From: Graham
Topic: 1131 Message: 1131

Has anyone links or info on the RA3721 series of radio cct etc , thats RA 3721 .. 3722 .. 3723 and 3724 . have a pdf sales document , but thats all .

Unfortunatly .. not for me .. :(

G ..

1132. Replacing keypads on 6790GM

Yahoo group: Racal6790GM
Date: 2008-07-26 03:53:30 UTC
From: larry.mcgee20
Topic: 1132 Message: 1132

Hello to all,

I need to replace a keypad on my radio and would like to kmow the correct way/mathod to insert the plastic ribbon into the connector. I believe I've found a couple of ways not to do it. If you have done it, you know that it's like trying to thread a wet noodle.

Also, another question - how do you verify that the keypad that won't send the entries to the radio is bad and not a problem on the board itself?

Thanks for any help. Larry

1133. Re: [Racal6790GM] Replacing keypads on 6790GM

Yahoo group: Racal6790GM
Date: 2008-07-26 04:24:05 UTC
From: gewingerd@netzero.com
Topic: 1132 Message: 1133

The key pads should be less that 100 ohms if you check them with an ohm meter. To install them back into the connector you have to bend the flex backwards which will make them straight again and then they just plug back in. Below is some info I created a couple of years ago that should help.

Front Panel Frequency Keypad J2

J2
1 GROUND
2 TUNE RATE U9-14
3 LOCK U9-12
4 BFO U9-10
5 BFO CENTER U9-6
6 #7 U9-4
7 #4 U9-2
8 #1 U8-12
9 ENTER U8-14
10 #5 U8-2
11 #8 U8-4
12 #2 U7-14
13 #0 U7-12
14 #6 U7-10
15 #9 U7-6
16 #3 U7-4
17 LOCAL REMOTE U7-2

Front Panel Mode Keypad J3

J3
1 GROUND
2 AM U25-14
3 ISB U/L U25-12
4 METER RF/AF U25-10
5 MAN U25-6
6 CW U25-2
7 FM U25-4
8 BW3 U24-12
9 SHORT U24-14
10 BW1 U24-2
11 USB U24-4
12 BW4 U23-14
13 MED U23-12
14 BW2 U23-10
15 LSB U23-2
16 BW5 U23-4
17 LONG U23-6

Thanks,
Gary

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1134. RA6790 Dual Diversity Reception

Yahoo group: Racal6790GM
Date: 2008-07-26 08:25:21 UTC
From: n6nc2007
Topic: 1134 Message: 1134

Hi Gang-

New question: Does anyone know how to rig the 6790s for dual diversity reception? There seems to be a diversity unit (MA168)for the Racal RA17 or RA117 rcvrs, but I'm not aware of one for the 6790s. Can anyone shed light on diversity reception with the 6790s?

73, Larry N6NC

PS We finally got the 6790 talking to and working with the CW Skimmer, with the help of Graham G0NBD. In one hour (04-05Z) during IARU contest, the 6790 with the skimmer copied 530 distinct call signs in a 26 kHz swath of the 40M CW band. We also rigged it for T/R cutoff of ANT and AGC squelch when companion transmitter is key down. Article for NCJ or similar forthcoming.

1135. Re: [Racal6790GM] RA6790 Dual Diversity Reception

Yahoo group: Racal6790GM
Date: 2008-07-26 17:04:37 UTC
From: Dan Rae
Topic: 1134 Message: 1135

n6nc2007 wrote:
> Hi Gang-
>
> New question: Does anyone know how to rig the 6790s for dual diversity
> reception? There seems to be a diversity unit (MA168)for the Racal RA17
> or RA117 rcvrs, but I'm not aware of one for the 6790s. Can anyone shed
> light on diversity reception with the 6790s?
>
>
Larry,

As I told Graham recently, the UK version, the RA1792, does lend itself very easily to diversity use with the SCORE cards fitted, it is then only a matter of a couple of cables to slave one receiver to another so the tuning, mode etc., follows automatically, and I have done this. It is very effective. I suppose it might be possible to build something that would do this to the 6790/GM using a Pic microcontroller and two serial cards, but I personally have no idea of how go about it...

The audio switching unit that works with the 1792 in diversity operation is the same as that used with the 1772 series, PM533 comes to mind, and the use of it is described fully in one of the appendices to the 1792 manual. I have never seen these for sale but I did make up a couple or three of them with the 1772 manual information and a pcb I designed.

73

Dan
ac6ao / g3ncr

1136. Re: RA6790 Dual Diversity Reception

Yahoo group: Racal6790GM
Date: 2008-07-26 18:59:14 UTC
From: Graham
Topic: 1134 Message: 1136

Dan,

As Larry has posted, we finally mamanged to get the cw skimmer running with the 6790 and 'key down' mute the set as well ..The diversity switch is a bit of a follow on from that ...

From memory , the diverity on the 1771/2 was part of the rtty decode system, it waited for a low in the data befor it switched feeds , I have the cct of that , I dont remember it switching the audio feed from the set, long time ago ,

if you just wanted to switch the audio , I assume a switching comparitor looking at the agc outputs , would give a simple system ?

to have a true tracking while tune system, not so easey ? may be just use 2 serial ports and output the same data or can you have more than one device on the same port and use the rx address syatem .. I'd have to ask :)

Thanks

G ..

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> n6nc2007 wrote:
> > Hi Gang-
> >
> > New question: Does anyone know how to rig the 6790s for dual diversity
> > reception? There seems to be a diversity unit (MA168)for the Racal RA17
> > or RA117 rcvrs, but I'm not aware of one for the 6790s. Can anyone shed
> > light on diversity reception with the 6790s?
> >
> >
> Larry,
>
> As I told Graham recently, the UK version, the RA1792, does lend itself
> very easily to diversity use with the SCORE cards fitted, it is then
> only a matter of a couple of cables to slave one receiver to another so
> the tuning, mode etc., follows automatically, and I have done this. It

> is very effective. I suppose it might be possible to build
something
> that would do this to the 6790/GM using a Pic microcontroller and
two
> serial cards, but I personally have no idea of how go about it...
>
> The audio switching unit that works with the 1792 in diversity
operation
> is the same as that used with the 1772 series, PM533 comes to
mind, and
> the use of it is described fully in one of the appendices to the
1792
> manual. I have never seen these for sale but I did make up a
couple or
> three of them with the 1772 manual information and a pcb I designed.
>
> 73
>
> Dan
> ac6ao / g3ncr
>

1137. RE: [Racal6790GM] Replacing keypads on 6790GM

Yahoo group: Racal6790GM
Date: 2008-07-26 19:23:14 UTC
From: Ed Tanton
Topic: 1132 Message: 1137

You know Gary: you are truly one of the good-guys. There are so many people who would never in a million years have released this information. They would have said something to the effect of either 1) send it to me and I'll replace it for $xxx; or 2) I will be happy to sell you the keyboards, and will include a listing and pinout. You did neither, and furthermore, took the time and trouble to create this chart. Personally I will not forget it. We have done minor business before (displays) and surely will do so again for whatever. I wouldn't THINK of going elsewhere for anything you might have to offer. Speaking for all of us: thanks!!!

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: http://www.n4xy.com

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QRP-L #165

Wag more - Bark Less

1138. Re: [Racal6790GM] Re: RA6790 Dual Diversity Reception

Yahoo group: Racal6790GM
Date: 2008-07-26 21:53:14 UTC
From: Dan Rae
Topic: 1134 Message: 1138

Graham wrote:
> Dan,
>
> As Larry has posted, we finally mamanged to get the cw skimmer
> running with the 6790 and 'key down' mute the set as well ..The
> diversity switch is a bit of a follow on from that ...
>
> >From memory , the diverity on the 1771/2 was part of the rtty decode
> system, it waited for a low in the data befor it switched feeds , I
> have the cct of that , I dont remember it switching the audio feed
> from the set, long time ago ,
>
> if you just wanted to switch the audio , I assume a switching
> comparitor looking at the agc outputs , would give a simple system ?
>
The Audio switching unit is the MM532 (the number I gave Larry, PM533 was for the bare board) and was used for cw / ssb; for rtty diversity the 1772 needed no extra stuff at all, just the appropriate connections. Appendix 3 of the 1772 operator's manual has the gory details. For ssb etc the MM532 switches at zero crossings of the audio signal so as to be imperceptible to the ear, it's a little bit more than just a comparator. This unit also works with the RA1792 and up, and if you can figure out how to make the two receivers track, would certainly work with the 6790/GM, since the connections are there on the 25 pin audio socket and indeed are identical to those on the 1792 as far as this goes.

> to have a true tracking while tune system, not so easey ?
If one were Pic literate, it should be pretty easy with two serial cards. You need to read the tuning mode and bandwidth data etc., from the master receiver and use that to control the slave which is put in remote mode. The only other thing is to use the frequency reference from the master for the slave. With SCORE* all this happens automatically; there is a slight delay when you tune fast, but it is not significant. But then you are probably using the serial cards for your own nefarious purposes anyway, so this may not be possible...

*Serial Control Of Racal Equipment, for those who don't know.

Details of the MM532 / PM533 are in the service manual for the RA1772, Vol 2 appendix 2. Connections are in the 1792 (operator's?) manual.

Have fun!

Dan
ac6ao / g3ncr

1139. Re: [Racal6790GM] Replacing keypads on 6790GM

Yahoo group: Racal6790GM
Date: 2008-07-27 05:23:29 UTC
From: Leigh Sedgwick
Topic: 1132 Message: 1139

I could not agree with you more. Gary is always willing to help, answer e-mails, provide parts, etc. Thank you Gary for all the help you provide the Racal community.

73 de Mike
K7PI
Mercer Island, WA

----- Original Message -----
From: "Ed Tanton" <n4xy@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Saturday, July 26, 2008 12:23 PM
Subject: RE: [Racal6790GM] Replacing keypads on 6790GM

You know Gary: you are truly one of the good-guys. There are so many people who would never in a million years have released this information. They would have said something to the effect of either 1) send it to me and I'll replace it for $xxx; or 2) I will be happy to sell you the keyboards, and will include a listing and pinout. You did neither, and furthermore, took the time and trouble to create this chart. Personally I will not forget it. We have done minor business before (displays) and surely will do so again for whatever. I wouldn't THINK of going elsewhere for anything you might have to offer. Speaking for all of us: thanks!!!

73 Ed Tanton N4XY <n4xy@...>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: http://www.n4xy.com

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QRP-L #165

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Yahoo! Groups Links

1140. Re: RA6790 Dual Diversity Reception

Yahoo group: Racal6790GM
Date: 2008-07-27 20:26:25 UTC
From: H Lawrence Serra
Topic: 1134 Message: 1140

Dan- That is great news. Either with your "comparator+" board, or the MM532, I should be able always to get the strongest audio signal out of two 6790s. I don't think the true frequency master/slave control is a problem, because with the w6ger control software, each 6790 can be commanded to the same precise frequency, mode, filter BW, etc.-- assuming they are calibrated. And for CW skimmer use, they only have to be set up once to the base frequency for that band, not tuned around. Next step is finding an MM532, or building your comparator+ ckt. 73, Larry

1141. Re: [Racal6790GM] Re: RA6790 Dual Diversity Reception

Yahoo group: Racal6790GM
Date: 2008-07-27 20:33:43 UTC
From: Dan Rae
Topic: 1134 Message: 1141

H Lawrence Serra wrote:
> Dan- That is great news. Either with your "comparator+" board, or the
> MM532, I should be able always to get the strongest audio signal out
> of two 6790s. I don't think the true frequency master/slave control is
> a problem, because with the w6ger control software, each 6790 can be
> commanded to the same precise frequency, mode, filter BW, etc.--
> assuming they are calibrated.
But you should still use a common reference frequency for the two
radios. Set one on "Ext" and the other to "Int" and connect the two...

dr

1142. R: [Racal6790GM] Re: RA6790 Dual Diversity Reception

Yahoo group: Racal6790GM
Date: 2008-07-28 13:25:53 UTC
From: I Z 6 E G K
Topic: 1134 Message: 1142

Hello H Lawrence,

would you please copy and paste in a message your RA6790Init.txt
configuration file of the w6ger control software ?

I can't find any help to set two (or three) receivers in that software, but
after your post I noticed that this is possible.

I think the only way is to modify this file.

Many tnx and best regards.

Pierluigi iz6egk

Da: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] Per
conto di H Lawrence Serra
Inviato: domenica 27 luglio 2008 22.26
A: Racal6790GM@yahoogroups.com
Oggetto: [Racal6790GM] Re: RA6790 Dual Diversity Reception

Dan- That is great news. Either with your "comparator+" board, or the MM532,
I should be able always to get the strongest audio signal out of two 6790s.
I don't think the true frequency master/slave control is a problem, because
with the w6ger control software, each 6790 can be commanded to the same
precise frequency, mode, filter BW, etc.-- assuming they are calibrated. And
for CW skimmer use, they only have to be set up once to the base frequency
for that band, not tuned around. Next step is finding an MM532, or building
your comparator+ ckt. 73, Larry

No virus found in this incoming message
Checked by PC Tools AntiVirus (4.0.0.26 - 10.100.008).
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No virus found in this outgoing message
Checked by PC Tools AntiVirus (4.0.0.26 - 10.100.008).
http://www.pctools.com/free-antivirus/

1143. W6GER.ini file to run two 6790s from same control program

Yahoo group: Racal6790GM
Date: 2008-07-28 21:20:15 UTC
From: n6nc2007
Topic: 1143 Message: 1143

Pierluigi-

I do not think that can be done within one w6ger program. I think you have to load two separate w6ger control programs, and set each one up with a different receiver address for the computer. I cannot locate my w6ger.ini file, but must load the information through the "settings" menu when the program loads up. I have emailed w6ger about his code and modifications, and even tried to Paypal him his suggested cost for the software ($35), but he has not answered, and I think he has retired from the project.

73, Larry N6NC

1144. Re: Replacing keypads on 6790GM

Yahoo group: Racal6790GM
Date: 2008-07-30 00:34:49 UTC
From: scm325
Topic: 1132 Message: 1144

I agree 100% Gary helped me a great deal here and via direct email...can' find a better or nicer guy....super gentleman & individual. SCM325

BTW Gary, I had another A2 board that i've installed temporarily...still going to rebuild my other...everything on the radio seems to be 100% except can't select the BFO tune by hitting the BFO button...the BFO center button works...and when in the CW mode and cycled via the BFO center button to show the BFO freq I cant change it (BFO freq) unless I strobe the power switch...then the BFO une display comes on & I can tune...any ideas?

Thanks Again
Steve
WD4GYN

--- In Racal6790GM@yahoogroups.com, "Ed Tanton" <n4xy@...> wrote:
>
> You know Gary: you are truly one of the good-guys. There are so many people
> who would never in a million years have released this information. They
> would have said something to the effect of either 1) send it to me and I'll
> replace it for $xxx; or 2) I will be happy to sell you the keyboards, and
> will include a listing and pinout. You did neither, and furthermore, took
> the time and trouble to create this chart. Personally I will not forget it.
> We have done minor business before (displays) and surely will do so again
> for whatever. I wouldn't THINK of going elsewhere for anything you might
> have to offer. Speaking for all of us: thanks!!!
>
>
> 73 Ed Tanton N4XY <n4xy@...>
>
> Ed Tanton N4XY
> 189 Pioneer Trail
> Marietta, GA 30068-3466
>
> website: http://www.n4xy.com
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> SEDXC NCDXA GACW QRP-ARCI
> OK-QRP   K2 (Field Tester) #00057
> QRP-L #165
>
> ---
> Wag more - Bark Less
> ---
>

1145. Re: [Racal6790GM] Re: Replacing keypads on 6790GM

Yahoo group: Racal6790GM
Date: 2008-07-30 09:13:50 UTC
From: gewingerd@netzero.com
Topic: 1132 Message: 1145

Steve,

It could be the A6A2 card but I would change the A9U9 chip first to see what happens also where the key pad plugs into the front panel, if you can see through the flex ribbon connection then the connection may be bad. You can repair the flex ribbon by removing 1/8" of material.

The key pads should be less that 100 ohms if you check them with an ohm meter. To install them back into the connector you have to bend the flex backwards which will make them straight again and then they just plug back in. Below is some info I created a couple of years ago that should help.

Front Panel Frequency Keypad J2

J2
1 GROUND
2 TUNE RATE U9-14
3 LOCK U9-12
4 BFO U9-10
5 BFO CENTER U9-6
6 #7 U9-4
7 #4 U9-2
8 #1 U8-12
9 ENTER U8-14
10 #5 U8-2
11 #8 U8-4
12 #2 U7-14
13 #0 U7-12
14 #6 U7-10
15 #9 U7-6
16 #3 U7-4
17 LOCAL REMOTE U7-2

Front Panel Mode Keypad J3

J3
1 GROUND
2 AM U25-14
3 ISB U/L U25-12
4 METER RF/AF U25-10
5 MAN U25-6
6 CW U25-2
7 FM U25-4
8 BW3 U24-12
9 SHORT U24-14
10 BW1 U24-2

11 USB U24-4
12 BW4 U23-14
13 MED U23-12
14 BW2 U23-10
15 LSB U23-2
16 BW5 U23-4
17 LONG U23-6

Thanks,
Gary

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1146. Re: Replacing keypads on 6790GM

Yahoo group: Racal6790GM
Date: 2008-08-01 01:28:22 UTC
From: scm325
Topic: 1132 Message: 1146

Gary,

Thanks again...i checked U9-10 and it goes low as long as you hold in the BFO button...so its not the key pad...the output of U9-10 buffer changes state with a button push, but not sure if its supposed to toggle or what...not real knowledgeable about those bus circuits on the other side of U9. I did noticed that the BFO button was functioning as it should when I first turned the radio on...it hadn't been on for over a week...worked for about 1-3 minuets and then no action...thats when I checked the pin 10 input above...wonder if somethings getting warm. All the voltages thru the pull up resistor packs look OK.

Steve

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Steve,
>
> It could be the A6A2 card but I would change the A9U9 chip first to see what happens also where the key pad plugs into the front panel, if you can see through the flex ribbon connection then the connection may be bad. You can repair the flex ribbon by removing 1/8" of material.
>
> The key pads should be less that 100 ohms if you check them with an ohm meter. To install them back into the connector you have to bend the flex backwards which will make them straight again and then they just plug back in. Below is some info I created a couple of years ago that should help.
>
>
> Front Panel Frequency Keypad J2
>
> J2
> 1 GROUND
> 2 TUNE RATE U9-14
> 3 LOCK U9-12
> 4 BFO U9-10
> 5 BFO CENTER U9-6
> 6 #7 U9-4
> 7 #4 U9-2
> 8 #1 U8-12
> 9 ENTER U8-14
> 10 #5 U8-2

> 11 #8 U8-4
> 12 #2 U7-14
> 13 #0 U7-12
> 14 #6 U7-10
> 15 #9 U7-6
> 16 #3 U7-4
> 17 LOCAL REMOTE U7-2
>
>
> Front Panel Mode Keypad J3
>
> J3
> 1 GROUND
> 2 AM U25-14
> 3 ISB U/L U25-12
> 4 METER RF/AF U25-10
> 5 MAN U25-6
> 6 CW U25-2
> 7 FM U25-4
> 8 BW3 U24-12
> 9 SHORT U24-14
> 10 BW1 U24-2
> 11 USB U24-4
> 12 BW4 U23-14
> 13 MED U23-12
> 14 BW2 U23-10
> 15 LSB U23-2
> 16 BW5 U23-4
> 17 LONG U23-6
>
> Thanks,
> Gary
>
>
> _____
> Compete with the big boys. Click here to find products to benefit
your business.
>
http://thirdpartyoffers.netzero.net/TGL2241/fc/Ioyw6i4t3HXtIg7kdmOKElU
maskdtMytMdNnHnc6lswbaTIxsE1URL/
>

1147. Racal 6790GM Available

Yahoo group: Racal6790GM
Date: 2008-08-04 18:12:59 UTC
From: wb9njb
Topic: 1147 Message: 1147

One and all,

I have a 6790GM that is surplus to my needs. It is if nice shape overall and works well. I also have a spare battery. Back lighting works. It has the following filters: 20khz, 7.1khz, 3.4khz,and 1.2khz. I would like to get $800.00. You ship from 80118. You can reply to this email, or call me at 303-681-3431.

1148. Out of lock LED lights

Yahoo group: Racal6790GM
Date: 2008-08-21 13:19:00 UTC
From: g8znw
Topic: 1148 Message: 1148

Greetings to the group from a new joiner!

I'm just checking out a RA6790/GM receiver that I recently bought. It seems to work ok but there is an issue for which I would be grateful for advice. When on AM or FM (but not CW, USB, LSB) one of the out of lock leds stays on (No 3, second from left). I have not been able to find anything in the manual that explains this.

- is it a fault or misadjustment?
- what should be done about it if anything?

Grateful any thoughts

Stuart

1149. Re: [Racal6790GM] Out of lock LED lights

Yahoo group: Racal6790GM
Date: 2008-08-21 14:20:36 UTC
From: Dan Rae
Topic: 1148 Message: 1149

g8znw wrote:
> When on AM or FM (but not CW, USB, LSB) one of the out of
> lock leds stays on (No 3, second from left). I have not been able to
> find anything in the manual that explains this.
>
> - is it a fault or misadjustment?
>
NO
> - what should be done about it if anything?
>
>
>
Nothing. Stuart, it's the BFO Out of Lock light. It's on because of
course, the BFO is not even on in these modes.

73
Dan
ac6ao / g3ncr

1150. Re: Out of lock LED lights/Filter detection by BITE

Yahoo group: Racal6790GM
Date: 2008-08-21 17:24:13 UTC
From: g8znw
Topic: 1148 Message: 1150

Dan,

thanks for that. It didn't seem that obvious when I was puzzling over it!

Next questions re filters:

- I have two filters that BITE measures as wider than their spec (6.8 reads 8.6kHz, 16 reads 20kHz). Would BITE usually be accurate, i.e. should I believe BITE or the filters?

- Two filters (400Hz and 1.2kHz) fail the BITE test (and if I move them the error message points to the new slot). Similarly, should I trust BITE? Is there a simple test to verify BITE filter measurements are sound?

Unless I misheard, I have been told that there is a way to override the BITE filter settings via the keyboard. Did I mishear or if not, how does one do this?

If I need some replacement crystal filters, what sources would anyone recommend?

thanks

Stuart

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> g8znw wrote:
> > When on AM or FM (but not CW, USB, LSB) one of the out of
> > lock leds stays on (No 3, second from left). I have not been able to
> > find anything in the manual that explains this.
> >
> > - is it a fault or misadjustment?
> >
> NO
> > - what should be done about it if anything?
> >
> >
> >
> Nothing. Stuart, it's the BFO Out of Lock light. It's on because of
> course, the BFO is not even on in these modes.
>
> 73
> Dan
> ac6ao / g3ncr
>

1151. Re: [Racal6790GM] Re: Out of lock LED lights/Filter detection by BITE

Yahoo group: Racal6790GM
Date: 2008-08-21 17:39:31 UTC
From: gewingerd@netzero.com
Topic: 1148 Message: 1151
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1152. Re: [Racal6790GM] Re: Out of lock LED lights/Filter detection by BITE

Yahoo group: Racal6790GM
Date: 2008-08-21 18:05:51 UTC
From: Dan Rae
Topic: 1148 Message: 1152

g8znw wrote:
> Dan,
>
> thanks for that. It didn't seem that obvious when I was puzzling over it!
>
> Next questions re filters:
>
> - I have two filters that BITE measures as wider than their spec (6.8
> reads 8.6kHz, 16 reads 20kHz). Would BITE usually be accurate, i.e.
> should I believe BITE or the filters?
>
>
The filters are measured by BITE perhaps differently from the Racal
spec. Personally I try to avoid BITE altogether, it is designed for
board level trouble shooting by the military who would replace entire
assemblies and is not a lot of use to us mortals...
> - Two filters (400Hz and 1.2kHz) fail the BITE test (and if I move
> them the error message points to the new slot). Similarly, should I
> trust BITE? Is there a simple test to verify BITE filter measurements
> are sound?
>
>
They are generally sound enough I'm sure, but you may have a faulty
filter or two of course...BITE reported widths tend to show as wider
than the marked, specified widths.
> Unless I misheard, I have been told that there is a way to override
> the BITE filter settings via the keyboard.
>
I see Gary W has sent you a file... Which information is also in the
later manuals.
>
> If I need some replacement crystal filters, what sources would anyone
> recommend?
>
Gary has some, that I'm sure he would be delighted to sell you, he is an
ex Racal (US) employee. Apart from that, eBay and a deep pocket is a
possibility. But as you are in the UK and there are a lot of 1792s
there with dead LCD displays, that could be a very good source of
filters. Both the Collins mechanical and the ITT crystal filters
commonly fitted to the '92 will transfer directly to the 6790/GM, along
with the matching capacitors. Look for the option GA (5) or GB (6)
filter sets. I bought a spare 1792 A4 board for less than ?40 a couple
of years back and transplanted the filters to a filterless GM very
easily. Some of the other parts have been useful as well.

Just beware of the "3kHz" wide filters that have been selling on ebay, they are a controlled delay data filter and are useless for SSB, having an actual width nearer 6 kHz. They do work on AM after a fashion.

73

Dan
ac6ao / g3ncr

1153. RA6790 for sale

Yahoo group: Racal6790GM
Date: 2008-08-26 15:36:08 UTC
From: Jeff
Topic: 1153 Message: 1153

I just put my 6790 up for sale on Ebay. Item number: 220273411777 RACAL RA 6790/GM Communications Receiver. Unit powers up and display works. Unable to test further. Includes 6 IF Filters... 16 kHz , 6.8 kHz , 3.24 kHz , 400 Hz , Standard USB and Standard LSB...

1154. RA6790 Eeprom Set Needed

Yahoo group: Racal6790GM
Date: 2008-09-07 01:45:37 UTC
From: Paul Black
Topic: 1154 Message: 1154

I am new to the Racal 6790 group. I need to purchase a new set of EPROMS for the CPU card. I would like to hear from anyone who could help me.

Cheers. Paul

Win a MacBook Air or iPod touch with Yahoo!7. http://au.docs.yahoo.com/homepageset

1155. Re: [Racal6790GM] RA6790 Eeprom Set Needed

Yahoo group: Racal6790GM
Date: 2008-09-07 01:56:44 UTC
From: gewingerd@netzero.com
Topic: 1154 Message: 1155

Paul,

I carry the 9666 RS232 lo freq eproms in stock for $45.00 plus shipping, I also carry all the other eproms sets in stock.

Thanks,
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733
gewingerd@...

_____
Physical Therapy Certification Training - Save online. Click now.
http://thirdpartyoffers.netzero.net/TGL2241/fc/Ioyw6i4vHJTDmDPjTXWPm42WbGD8Ea93R3wjxVq5ubiTnVjnxKHKdb/

1156. Re: [Racal6790GM] RA6790 Eeprom Set Needed

Yahoo group: Racal6790GM
Date: 2008-09-07 03:23:15 UTC
From: mparkinson1
Topic: 1154 Message: 1156

Gary what is the low down on the different version of the Eproms set what do each different set do.
Thanks
Matt Parkinson Military Equipment & R 390A Depot Center

1157. Re: [Racal6790GM] RA6790 Eeprom Set Needed

Yahoo group: Racal6790GM
Date: 2008-09-07 14:51:21 UTC
From: gewingerd@netzero.com
Topic: 1154 Message: 1157

Matt,

Please keep in mind all the below only work with F8 micro card 8392 and that the 4100030-50x have totally different software's installed and that a whole new multi-sets of software can be used with these cards (some are 1600217 and 1600304, both are RS232).

The 8449 software is the standard R2174 software that works 500 KHz to 29.999999 MHz, RS232 (8391 cards) and reports only some of the info back from the receiver.

The 9666 software is the RA6790/GM commercial software that works 0 KHz to 29.999999 MHz, RS232 (8391 cards) and reports all the info back from the receiver (Like AGC setting and other info).

There is also the RATTGM software out there which allows the receiver to only work with 2 AGC settings, and there is boot leg software that changes the tuning rates for the receiver in lo and standard software's. The RA6790/GM can also have about 39 more software numbers that change operating parameters.

Then there are 2 different versions of software for the operation with the IEEE cards.

There are 16 different versions of software for the RA6793 and RA6793A receivers.

thanks,
Gary

_____
Boost your productivity with new office software. Click now!
http://thirdpartyoffers.netzero.net/TGL2241/fc/Ioyw6i4s9zEUYMkI1j1x3fYFdn1mrPBwI7hLasX1tsiJH4KxynM9Lj/

1158. Re: [Racal6790GM] RA6790 Eeprom Set Needed

Yahoo group: Racal6790GM
Date: 2008-09-07 18:01:20 UTC
From: mparkinson1
Topic: 1154 Message: 1158

Gary
That very interesting information.
I did see a receiver with 9666 writen on the eproms I am wondering if that is the card I should hang on to.
I might have let it go but I will have to check.
Wow!
I didn't realize there were that many differences.
I am wondering if that is the reason I am have some strange AGC problems because of the mix and match boards in the receivers.

Matt Parkinson Military Equipment & R 390A Depot Center

1159. Problem med overvekt eller høyt blodtrykk?

Yahoo group: Racal6790GM
Date: 2008-09-11 15:53:38 UTC
From: hoangvuonglongnguyet15
Topic: 1159 Message: 1159

Ta en titt på http://www.spisdegslank.no
Lykke til!

1160. FS: Filters for 6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-19 03:37:30 UTC
From: Chuck
Topic: 1160 Message: 1160

I have 2 Racal IF filters for the 6790/GM. One is 3.24khz and the other is 1.2khz. $65 each shipped in CONUS only or both for $120 shipped in CONUS only. Chuck...wa2onk

1161. A Puzzle?

Yahoo group: Racal6790GM
Date: 2008-09-19 18:57:08 UTC
From: toptyp19
Topic: 1161 Message: 1161

Hello to the group!

Some months ago my 6790/GM became inoperative. Symtoms started with varying audio amplitude, then loss of frequency control (would change with tuning on the display, but the actual frequency would remain the same). Finally, loss of sensitivity. This all occurred within several minutes. I powered down, powered up, ran bite. Display showed various fault codes (sorry, I don't remember which) and the numbers in the display would also never be the same twice! I suspected microprocessor problems. At any rate, I set the receiver aside and only today did I decide to document the exact codes, display readings, etc. You guessed it; the receiver is working perfectly! The only thing I had to do was run bite so the aftermarket 2.1 kHz filter from Sherwood would be recognized in the SSB mode. It saw it in CW and AM, but not SSB. After bite, no problem! My question to the experts is: should I suspect the 2.1 kHz filter as being the initial culprit? If so, I'll replace it with the original 3.24 kHz which I still have.
Comments please!
Thanks.

Joe.

1162. Re: [Racal6790GM] FS: Filters for 6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-20 00:03:22 UTC
From: mparkinson1
Topic: 1160 Message: 1162

Has some one bought the 3.2 filter from you yet???
If not I will take it thanks
Matt Parkinson Military Equipment & R 390A Depot Center

1163. RE: 1.2 & 3.24khz Racal Filters

Yahoo group: Racal6790GM
Date: 2008-09-20 23:57:07 UTC
From: Chuck
Topic: 1163 Message: 1163

The subject filters are spoken for. Thanks.

Chuck...wa2onk

1164. Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 16:46:36 UTC
From: g8znw
Topic: 1164 Message: 1164

I'm finishing off a small addition to Winrad that allows it to be used as a panadapter and controller for a 6790/GM + Softrock 455. I wondered if anyone had any interest in such a thing, and if so any thoughts on how it should work. Any ideas that I agree with I can build in to the software!

Winrad is an SDR application that enables you to view the spectrum in up to 96KHz chunks (depending on PC sound card), and view all signals in that range. A Softrock 455 is a tiny convertor that takes the 455 IF output and creates a baseband signal for the PC sound card. You can simply view the spectrum, or demodulate in Winrad. The dll that I am writing means that the Rx can be tuned from the screen, and the filters and AGC mode selected also from the screen. A Tx could in principle also be tuned from the screen, although I have not done that. It would also work with any receiver that used the same commands and produced a suitable output.

The Rx of course needs the serial card installed and a cable to the serial port, and ideally the eproms that allow 0-29999999 tuning.

The panadapter means that any signal can be identified clearly (even cw pile-ups) for what it is. The waterfall display gives a time history. The effect is quite remarkable.

Any views would be of interest!

Stuart

1165. Re: [Racal6790GM] Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 17:02:50 UTC
From: Dan Rae
Topic: 1164 Message: 1165

g8znw wrote:
> I'm finishing off a small addition to Winrad that allows it to be used
> as a panadapter and controller for a 6790/GM + Softrock 455.
Stuart, several people have done this, used the softrock at 455, I mean. The trouble with using the IF output is that it is bandwidth limited by the filters on the A4 IF card, so you can see only what you can hear. To be of more use you would need to tap off the 455 signal at the output of the A3 card, before the filtering, where it is 20 kHz wide.

In one of my (similar) RA1792s I did tap off the 40.455 MHz IF before the roofing filter to give a wideband IF sample to use with a panoramic adapter, but this is far from a trivial procedure, and the level is low at this point, so a lot of amplification is needed...

Certainly an interesting project though!

Dan

ac6ao / g3ncr

1166. RE: [Racal6790GM] Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 17:12:12 UTC
From: Carcia, Francis A HS
Topic: 1164 Message: 1166

I'm doing the same thing with an RA6830. I'm not controlling the radio though. but one suggestion. Set your softrock crystal frequency with the same offset used in the Flex software. I'm using HPSDR hardware so with the addition of the Penny RX and TX frequency will line up with each other. I'm using a splitter after the second mixer ahead of the 455 KHz crystal filters. frank WA1GFZ

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of g8znw
Sent: Tuesday, September 30, 2008 12:47 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Winrad panadapter/controller for RA6790/GM

I'm finishing off a small addition to Winrad that allows it to be used as a panadapter and controller for a 6790/GM + Softrock 455. I wondered if anyone had any interest in such a thing, and if so any thoughts on how it should work. Any ideas that I agree with I can build in to the software!

Winrad is an SDR application that enables you to view the spectrum in up to 96KHz chunks (depending on PC sound card), and view all signals in that range. A Softrock 455 is a tiny convertor that takes the 455 IF output and creates a baseband signal for the PC sound card. You can simply view the spectrum, or demodulate in Winrad. The dll that I am writing means that the Rx can be tuned from the screen, and the filters and AGC mode selected also from the screen. A Tx could in principle also be tuned from the screen, although I have not done that. It would also work with any receiver that used the same commands and produced a suitable output.

The Rx of course needs the serial card installed and a cable to the serial port, and ideally the eproms that allow 0-29999999 tuning.

The panadapter means that any signal can be identified clearly (even cw pile-ups) for what it is. The waterfall display gives a time history. The effect is quite remarkable.

Any views would be of interest!

Stuart

1167. Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 18:24:58 UTC
From: g8znw
Topic: 1164 Message: 1167

re Dan's comment, yes I would have thought so too. But Winrad+PC sound card has a HUGE dynamic range so the effect of the filters is not so significant. Indeed, it is even not easy to detect. I have still not convinced myself that the IF filters are even in circuit before the 455 output, even though I know they must be as per Figure 4-5 in the manual. With the GUI I can change the filters with a mouse click and watch the effect on the waterfall. The effect is very slight! Yet it is as dramatic as one would expect on the Rx audio.

Stuart

1168. Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 18:32:47 UTC
From: g8znw
Topic: 1164 Message: 1168

Francis, Thanks for the suggestion. I'm not familiar with all the names you mention so will have to do a little research. At the moment the Softrock LO is at 445, and Winrad changes the Rx tuned freq, allowing for the 10kHz offset, so the screen calibration matches the received freq. The calibration is about 140Hz out at 198KHz (UK radio 4) which can easily be remedied so I plan to do some software calibration between the RX and Winrad.

Is the command seq the same for your RX? ($99<CR> sets up Rx no 99, F12.345678<CR> tunes rx 99 to 12.345678MHz, etc)

Stuart

1169. RE: [Racal6790GM] Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 18:53:38 UTC
From: Carcia, Francis A HS
Topic: 1164 Message: 1169
Attachments: 1 described; binary payloads are missing from this source WARC

Stuart,
Commands look the same. Enclosed the RA6830 appendix A. I have never tried the Serial remote control but had a program to do IEEE488 once. The serial software tunes 0 to 32 MHz. frank

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of g8znw
Sent: Tuesday, September 30, 2008 2:33 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Winrad panadapter/controller for RA6790/GM

Francis, Thanks for the suggestion. I'm not familiar with all the names you mention so will have to do a little research. At the moment the Softrock LO is at 445, and Winrad changes the Rx tuned freq, allowing for the 10kHz offset, so the screen calibration matches the received freq. The calibration is about 140Hz out at 198KHz (UK radio 4) which can easily be remedied so I plan to do some software calibration between the RX and Winrad.

Is the command seq the same for your RX? ($99<CR> sets up Rx no 99, F12.345678<CR> tunes rx 99 to 12.345678MHz, etc)

Stuart

1170. RE: [Racal6790GM] Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 18:58:12 UTC
From: Carcia, Francis A HS
Topic: 1164 Message: 1170

The software filters will be superior but I find the Racal AM detector blows away the Flex AM detector when conditions are poor. I usually run both in parallel to compare performance. Computer is a dual dual core 2.4 GHz Dell running under 20% horse power with HPSDR interface. frank

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of g8znw
Sent: Tuesday, September 30, 2008 2:25 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Winrad panadapter/controller for RA6790/GM

re Dan's comment, yes I would have thought so too. But Winrad+PC sound card has a HUGE dynamic range so the effect of the filters is not so significant. Indeed, it is even not easy to detect. I have still not convinced myself that the IF filters are even in circuit before the 455 output, even though I know they must be as per Figure 4-5 in the manual. With the GUI I can change the filters with a mouse click and watch the effect on the waterfall. The effect is very slight! Yet it is as dramatic as one would expect on the Rx audio.

Stuart

1171. Re: Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 19:07:30 UTC
From: g8znw
Topic: 1164 Message: 1171

Francis, I have never managed to access attachments on the Group.
Could you resend to my email gillies at hushmail.com? If it is the
same sequence and you have Winrad you might like to try my dll sometime!

s

--- In Racal6790GM@yahoogroups.com, "Carcia, Francis A HS"
<francis.carcia@...> wrote:
>
> Stuart,
> Commands look the same. Enclosed the RA6830 appendix A. I have never
> tried the Serial remote control but had a program to do IEEE488 once.
> The serial software tunes 0 to 32 MHz. frank
>
> _____
>
> From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
> On Behalf Of g8znw
> Sent: Tuesday, September 30, 2008 2:33 PM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Winrad panadapter/controller for RA6790/GM
>
>
>
> Francis, Thanks for the suggestion. I'm not familiar with all the
> names you mention so will have to do a little research. At the moment
> the Softrock LO is at 445, and Winrad changes the Rx tuned freq,
> allowing for the 10kHz offset, so the screen calibration matches the
> received freq. The calibration is about 140Hz out at 198KHz (UK radio
> 4) which can easily be remedied so I plan to do some software
> calibration between the RX and Winrad.
>
> Is the command seq the same for your RX? ($99<CR> sets up Rx no 99,
> F12.345678<CR> tunes rx 99 to 12.345678MHz, etc)
>
> Stuart
>

1172. Re: [Racal6790GM] Re: Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 19:12:15 UTC
From: FRANCIS CARCIA
Topic: 1164 Message: 1172

I just sent it

--- On Tue, 9/30/08, g8znw <gillies@...> wrote:

From: g8znw <gillies@...>
Subject: [Racal6790GM] Re: Winrad panadapter/controller for RA6790/GM
To: Racal6790GM@yahoogroups.com
Date: Tuesday, September 30, 2008, 3:07 PM

Francis, I have never managed to access attachments on the Group.
Could you resend to my email gillies at hushmail.com? If it is the
same sequence and you have Winrad you might like to try my dll sometime!

s

--- In Racal6790GM@ yahoogroups. com, "Carcia, Francis A HS"
<francis.carcia@ ...> wrote:
>
> Stuart,
> Commands look the same. Enclosed the RA6830 appendix A. I have never
> tried the Serial remote control but had a program to do IEEE488 once.
> The serial software tunes 0 to 32 MHz. frank
>
> ---------- --------- --------- --
>
> From: Racal6790GM@ yahoogroups. com [mailto:Racal6790GM@ yahoogroups. com]
> On Behalf Of g8znw
> Sent: Tuesday, September 30, 2008 2:33 PM
> To: Racal6790GM@ yahoogroups. com
> Subject: [Racal6790GM] Winrad panadapter/controll er for RA6790/GM
>
>
>
> Francis, Thanks for the suggestion. I'm not familiar with all the
> names you mention so will have to do a little research. At the moment
> the Softrock LO is at 445, and Winrad changes the Rx tuned freq,
> allowing for the 10kHz offset, so the screen calibration matches the
> received freq. The calibration is about 140Hz out at 198KHz (UK radio
> 4) which can easily be remedied so I plan to do some software
> calibration between the RX and Winrad.
>
> Is the command seq the same for your RX? ($99<CR> sets up Rx no 99,
> F12.345678<CR> tunes rx 99 to 12.345678MHz, etc)
>
> Stuart
>

1173. Re: [Racal6790GM] Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 19:28:23 UTC
From: bipi@comcast.net
Topic: 1164 Message: 1173

Would this also work with the SDR-IQ by RFSapce?

---------- Original message ----------
From: "g8znw" <gillies@...>
> I'm finishing off a small addition to Winrad that allows it to be used
> as a panadapter and controller for a 6790/GM + Softrock 455. I
> wondered if anyone had any interest in such a thing, and if so any
> thoughts on how it should work. Any ideas that I agree with I can
> build in to the software!
>
> Winrad is an SDR application that enables you to view the spectrum in
> up to 96KHz chunks (depending on PC sound card), and view all signals
> in that range. A Softrock 455 is a tiny convertor that takes the 455
> IF output and creates a baseband signal for the PC sound card. You can
> simply view the spectrum, or demodulate in Winrad. The dll that I am
> writing means that the Rx can be tuned from the screen, and the
> filters and AGC mode selected also from the screen. A Tx could in
> principle also be tuned from the screen, although I have not done
> that. It would also work with any receiver that used the same
> commands and produced a suitable output.
>
> The Rx of course needs the serial card installed and a cable to the
> serial port, and ideally the eproms that allow 0-29999999 tuning.
>
> The panadapter means that any signal can be identified clearly (even
> cw pile-ups) for what it is. The waterfall display gives a time
> history. The effect is quite remarkable.
>
> Any views would be of interest!
>
> Stuart
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1174. Re: [Racal6790GM] Re: Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 19:50:51 UTC
From: FRANCIS CARCIA
Topic: 1164 Message: 1174

did you get the file?

--- On Tue, 9/30/08, g8znw <gillies@...> wrote:

From: g8znw <gillies@...>
Subject: [Racal6790GM] Re: Winrad panadapter/controller for RA6790/GM
To: Racal6790GM@yahoogroups.com
Date: Tuesday, September 30, 2008, 3:07 PM

Francis, I have never managed to access attachments on the Group.
Could you resend to my email gillies at hushmail.com? If it is the
same sequence and you have Winrad you might like to try my dll sometime!

s

--- In Racal6790GM@ yahoogroups. com, "Carcia, Francis A HS"
<francis.carcia@ ...> wrote:
>
> Stuart,
> Commands look the same. Enclosed the RA6830 appendix A. I have never
> tried the Serial remote control but had a program to do IEEE488 once.
> The serial software tunes 0 to 32 MHz. frank
>
> ---------- --------- --------- --
>
> From: Racal6790GM@ yahoogroups. com [mailto:Racal6790GM@ yahoogroups. com]
> On Behalf Of g8znw
> Sent: Tuesday, September 30, 2008 2:33 PM
> To: Racal6790GM@ yahoogroups. com
> Subject: [Racal6790GM] Winrad panadapter/controll er for RA6790/GM
>
>
>
> Francis, Thanks for the suggestion. I'm not familiar with all the
> names you mention so will have to do a little research. At the moment
> the Softrock LO is at 445, and Winrad changes the Rx tuned freq,
> allowing for the 10kHz offset, so the screen calibration matches the
> received freq. The calibration is about 140Hz out at 198KHz (UK radio
> 4) which can easily be remedied so I plan to do some software
> calibration between the RX and Winrad.
>
> Is the command seq the same for your RX? ($99<CR> sets up Rx no 99,
> F12.345678<CR> tunes rx 99 to 12.345678MHz, etc)
>
> Stuart
>

1175. Re: Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 20:25:00 UTC
From: g8znw
Topic: 1164 Message: 1175

Francis, tnks but no, not seen at email addr I gave you!

--- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
> did you get the file?
>
> --- On Tue, 9/30/08, g8znw <gillies@...> wrote:
>
> From: g8znw <gillies@...>
> Subject: [Racal6790GM] Re: Winrad panadapter/controller for RA6790/GM
> To: Racal6790GM@yahoogroups.com
> Date: Tuesday, September 30, 2008, 3:07 PM
>
>
>
>
>
>
>
> Francis, I have never managed to access attachments on the Group.
> Could you resend to my email gillies at hushmail.com? If it is the
> same sequence and you have Winrad you might like to try my dll sometime!
>
> s
>
> --- In Racal6790GM@ yahoogroups. com, "Carcia, Francis A HS"
> <francis.carcia@ ...> wrote:
> >
> > Stuart,
> > Commands look the same. Enclosed the RA6830 appendix A. I have never
> > tried the Serial remote control but had a program to do IEEE488 once.
> > The serial software tunes 0 to 32 MHz. frank
> >
> > _____ _____ _____ __
> >
> > From: Racal6790GM@ yahoogroups. com [mailto:Racal6790GM@
yahoogroups. com]
> > On Behalf Of g8znw
> > Sent: Tuesday, September 30, 2008 2:33 PM
> > To: Racal6790GM@ yahoogroups. com
> > Subject: [Racal6790GM] Winrad panadapter/controll er for RA6790/GM
> >
> >
> >
> > Francis, Thanks for the suggestion. I'm not familiar with all the
> > names you mention so will have to do a little research. At the moment

> > the Softrock LO is at 445, and Winrad changes the Rx tuned freq,
> > allowing for the 10kHz offset, so the screen calibration matches the
> > received freq. The calibration is about 140Hz out at 198KHz (UK radio
> > 4) which can easily be remedied so I plan to do some software
> > calibration between the RX and Winrad.
> >
> > Is the command seq the same for your RX? ($99<CR> sets up Rx no 99,
> > F12.345678<CR> tunes rx 99 to 12.345678MHz, etc)
> >
> > Stuart
> >
>

1176. Re: Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 20:29:00 UTC
From: g8znw
Topic: 1164 Message: 1176

Bipi, I'm not familiar with the rx you mention, but if it has a 455kHz IF output or can be adjusted to provide one, then Winrad/Softrock 455 would work (you can get Softrocks for other IFs as well). My GUI depends on a command sequence to be sent from a serial port and that probably would not, although if your rx can be controlled via serial command then my gui could be modified to send different commands.

--- In Racal6790GM@yahoogroups.com, bipi@... wrote:
>
> Would this also work with the SDR-IQ by RFSapce?
>
> -------------- Original message ----------------------
> From: "g8znw" <gillies@...>
> > I'm finishing off a small addition to Winrad that allows it to be used
> > as a panadapter and controller for a 6790/GM + Softrock 455. I
> > wondered if anyone had any interest in such a thing, and if so any
> > thoughts on how it should work. Any ideas that I agree with I can
> > build in to the software!
> >
> > Winrad is an SDR application that enables you to view the spectrum in
> > up to 96KHz chunks (depending on PC sound card), and view all signals
> > in that range. A Softrock 455 is a tiny convertor that takes the 455
> > IF output and creates a baseband signal for the PC sound card. You can
> > simply view the spectrum, or demodulate in Winrad. The dll that I am
> > writing means that the Rx can be tuned from the screen, and the
> > filters and AGC mode selected also from the screen. A Tx could in
> > principle also be tuned from the screen, although I have not done
> > that. It would also work with any receiver that used the same
> > commands and produced a suitable output.
> >
> > The Rx of course needs the serial card installed and a cable to the
> > serial port, and ideally the eproms that allow 0-29999999 tuning.
> >
> > The panadapter means that any signal can be identified clearly (even
> > cw pile-ups) for what it is. The waterfall display gives a time
> > history. The effect is quite remarkable.
> >
> > Any views would be of interest!
> >
> > Stuart
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links

> >
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> >
>

1177. RA6790 3.24 filter

Yahoo group: Racal6790GM
Date: 2008-10-16 22:54:38 UTC
From: n3lhb
Topic: 1177 Message: 1177

I am looking for a 3.24 crystal filter for my RA6790/GM. If anyone has one (or even something close in a mechanical filter) they are willing to part with, please let me know via private mail...

Thanks, Ed

1178. Re: [Racal6790GM] Re: Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-09-30 20:34:02 UTC
From: FRANCIS CARCIA
Topic: 1164 Message: 1178

just sent it again. just under 4 meg file

--- On Tue, 9/30/08, g8znw <gillies@...> wrote:

From: g8znw <gillies@...>
Subject: [Racal6790GM] Re: Winrad panadapter/controller for RA6790/GM
To: Racal6790GM@yahoogroups.com
Date: Tuesday, September 30, 2008, 4:25 PM

Francis, tnks but no, not seen at email addr I gave you!

--- In Racal6790GM@ yahoogroups. com, FRANCIS CARCIA <carcia@...> wrote:
>
> did you get the file?
>
> --- On Tue, 9/30/08, g8znw <gillies@... > wrote:
>
> From: g8znw <gillies@... >
> Subject: [Racal6790GM] Re: Winrad panadapter/controll er for RA6790/GM
> To: Racal6790GM@ yahoogroups. com
> Date: Tuesday, September 30, 2008, 3:07 PM
>
>
>
>
>
>
> Francis, I have never managed to access attachments on the Group.
> Could you resend to my email gillies at hushmail.com? If it is the
> same sequence and you have Winrad you might like to try my dll sometime!
>
> s
>
> --- In Racal6790GM@ yahoogroups. com, "Carcia, Francis A HS"
> <francis.carcia@ ...> wrote:
> >
> > Stuart,
> > Commands look the same. Enclosed the RA6830 appendix A. I have never
> > tried the Serial remote control but had a program to do IEEE488 once.
> > The serial software tunes 0 to 32 MHz. frank
> >
> > __________ _________ _________ __
> >
> > From: Racal6790GM@ yahoogroups. com [mailto:Racal6790GM @
yahoogroups. com]
> > On Behalf Of g8znw

> > Sent: Tuesday, September 30, 2008 2:33 PM
> > To: Racal6790GM@ yahoogroups. com
> > Subject: [Racal6790GM] Winrad panadapter/controll er for RA6790/GM
> >
> >
> >
> > Francis, Thanks for the suggestion. I'm not familiar with all the
> > names you mention so will have to do a little research. At the moment
> > the Softrock LO is at 445, and Winrad changes the Rx tuned freq,
> > allowing for the 10kHz offset, so the screen calibration matches the
> > received freq. The calibration is about 140Hz out at 198KHz (UK radio
> > 4) which can easily be remedied so I plan to do some software
> > calibration between the RX and Winrad.
> >
> > Is the command seq the same for your RX? ($99<CR> sets up Rx no 99,
> > F12.345678<CR> tunes rx 99 to 12.345678MHz, etc)
> >
> > Stuart
> >
>

1179. RE: [Racal6790GM] Re: Winrad panadapter/controller for RA6790/GM

Yahoo group: Racal6790GM
Date: 2008-10-17 12:11:04 UTC
From: Carcia, Francis A HS
Topic: 1164 Message: 1179

Stuart,
No, I didn't please try again. carcia@.... Maybe I deleted it
by mistake. Thank You Frank

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of FRANCIS CARCIA
Sent: Tuesday, September 30, 2008 4:34 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Re: Winrad panadapter/controller for
RA6790/GM

just sent it again. just under 4 meg file

--- On Tue, 9/30/08, g8znw <gillies@...> wrote:

From: g8znw <gillies@hushmail.com>
Subject: [Racal6790GM] Re: Winrad panadapter/controller for
RA6790/GM
To: Racal6790GM@yahoogroups.com
Date: Tuesday, September 30, 2008, 4:25 PM

Francis, tnks but no, not seen at email addr I gave you!

--- In Racal6790GM@ yahoogroups. com
<mailto:Racal6790GM%40yahoogroups.com> , FRANCIS CARCIA <carcia@...>
wrote:
>
> did you get the file?
>
> --- On Tue, 9/30/08, g8znw <gillies@... > wrote:
>
> From: g8znw <gillies@... >
> Subject: [Racal6790GM] Re: Winrad panadapter/controll er for
RA6790/GM
> To: Racal6790GM@ yahoogroups. com
<mailto:Racal6790GM%40yahoogroups.com>
> Date: Tuesday, September 30, 2008, 3:07 PM
>
>
>
>
>
>
> Francis, I have never managed to access attachments on the
Group.

> Could you resend to my email gillies at hushmail.com? If it is
the
> same sequence and you have Winrad you might like to try my dll
sometime!
>
> s
>
> --- In Racal6790GM@ yahoogroups. com, "Carcia, Francis A HS"
> <francis.carcia@ ...> wrote:
> >
> > Stuart,
> > Commands look the same. Enclosed the RA6830 appendix A. I
have never
> > tried the Serial remote control but had a program to do
IEEE488 once.
> > The serial software tunes 0 to 32 MHz. frank
> >
> > _____ _____ _____ __
> >
> > From: Racal6790GM@ yahoogroups. com [mailto:Racal6790GM @
yahoogroups. com]
> > On Behalf Of g8znw
> > Sent: Tuesday, September 30, 2008 2:33 PM
> > To: Racal6790GM@ yahoogroups. com
> > Subject: [Racal6790GM] Winrad panadapter/controll er for
RA6790/GM
> >
> >
> >
> > Francis, Thanks for the suggestion. I'm not familiar with
all the
> > names you mention so will have to do a little research. At
the moment
> > the Softrock LO is at 445, and Winrad changes the Rx tuned
freq,
> > allowing for the 10kHz offset, so the screen calibration
matches the
> > received freq. The calibration is about 140Hz out at 198KHz
(UK radio
> > 4) which can easily be remedied so I plan to do some
software
> > calibration between the RX and Winrad.
> >
> > Is the command seq the same for your RX? ($99<CR> sets up Rx
no 99,
> > F12.345678<CR> tunes rx 99 to 12.345678MHz, etc)
> >
> > Stuart
> >
>

1180. Remote Help

Yahoo group: Racal6790GM
Date: 2008-10-29 23:10:39 UTC
From: Dave McAllister
Topic: 982 Message: 1180

Gary,

I purchased a remote cable from you a year or so ago, and I am now able to connect it to a suitable computer. However, I have lost the info sheet you sent with the cable. I've been trying to set it up anyway, but there are a few things I can't quite figure out.

What is the receiver number? According to the W6GER help file, it is set in the interface cable. Do you set it to a default value? I cannot get it to respond as receiver 0 or 1 or 2 or 99 or anything else I try for that matter.

What are the default operating settings for the interface, i.e. 9600 baud, 8 bits, 1 stop bit, no parity, or something else?

What I did was connect the large (DB-25?) connector through a gender changer to a DB-9 adapter and plugged it in to my serial port. However, I haven't been able to get the receiver to respond even through a terminal program. Am I doing something fundamentally wrong here?

Thanks in advance for your help.

Dave
VE7HUN

1181. Re: [Racal6790GM] Remote Help

Yahoo group: Racal6790GM
Date: 2008-10-30 09:09:49 UTC
From: gewingerd@netzero.com
Topic: 982 Message: 1181
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1182. RA-3701 manual

Yahoo group: Racal6790GM
Date: 2008-11-06 14:51:15 UTC
From: vk5abc
Topic: 1182 Message: 1182

Hello Everyone

Anyone here got a Racal RA-3701 manual or perhaps owns one
I would like to hear from you.

73 Lee

1183. RA6790/GM A14 installation

Yahoo group: Racal6790GM
Date: 2008-11-20 14:44:16 UTC
From: vk5abc
Topic: 1183 Message: 1183

Hello Everyone

I have a RA6790/GM which has a A5 isb board installed, is it possible
to install a A14 board as well?

73 Lee

1184. RA6793A manual

Yahoo group: Racal6790GM
Date: 2008-11-20 15:00:54 UTC
From: vk5abc
Topic: 1184 Message: 1184

Hello All

I have a downloaded manual for the RA6793A however it does not have
any of the following A14 A11 A13 Anyone here with info on these boards?

73 Lee

1185. Blown FET's ??

Yahoo group: Racal6790GM
Date: 2008-12-08 18:18:49 UTC
From: toptyp19
Topic: 1185 Message: 1185

I went to use one of my 6790's and sensitivity is down. I ran
bite and no errors showed up. I removed the antenna and there's
still lots of static noise. This noise is also there in the
"remote" mode at a reduced level. All controls and functions work as
they should. Oh, and I'm taking the audio from the output on the rear,
not the phone jack. Anyone know if this points to FET problems?

Thanks in advance for any ideas.

Joe.

1186. Re: [Racal6790GM] Blown FET's ??

Yahoo group: Racal6790GM
Date: 2008-12-09 10:23:09 UTC
From: gewingerd@netzero.com
Topic: 1185 Message: 1186
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1187. Re: Blown FET's ??

Yahoo group: Racal6790GM
Date: 2008-12-09 15:01:59 UTC
From: toptyp19
Topic: 1185 Message: 1187

Thanks Gary-

I'll check the gain tomorrow. If it turns out I have
a defective A2 or A4 card I'll send you some business!
Again, thank you for the help.

Joe.

1188. Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-10 21:21:50 UTC
From: davesc50
Topic: 1188 Message: 1188

Hi all,
Don't know if this is at all possible or practical, but just wondering.
As 6790's are rarer than hens teeth here in the UK and I have far to many (or so my wife says) RA1792's, is it possible to convert a RA1792 to a 6790 just by changing the front panel assembly and operating firmware?
There is a complete front panel assembly going on Ebay UK at the moment and I thought I may give it a try.
I have the facilities here to re-program the firmware of one of my 1792's so was wondering about the level of compatability between these two models.

Thanks,
Dave.S.

1189. Re: [Racal6790GM] Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-10 22:10:32 UTC
From: Dan Rae
Topic: 1188 Message: 1189

davesc50 wrote:
> Hi all,
> Don't know if this is at all possible or practical, but just wondering.
> As 6790's are rarer than hens teeth here in the UK and I have far to
> many (or so my wife says) RA1792's, is it possible to convert a RA1792
> to a 6790 just by changing the front panel assembly and operating
> firmware?
> T
Dave the early Marks of the 1792 have some similarities but then they diverged more and more in the later marks of the 1792.

My question would be why bother? The 1792 is in many ways a much better radio for Ham use, with the 100 memories, mode memories and (mostly) more sensible tuning steps, provision of muting, and so on and so forth. The 6790/GM was a slightly dumbed down version of the 1792 with a lot of things specified by the US gov for their own reasons, BITE and ease of maintenance by module substitution mainly and flexibility of the plug in filters, not to mention those awful tuning steps.

From the antenna input on there are detailed differences that will make it hard to do what you describe anyway.

Dan
ac6ao / g3ncr, who owns three or four of each with not too much aggro from SWMBO...

1190. Re: [Racal6790GM] Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-11 01:04:52 UTC
From: FRANCIS CARCIA
Topic: 1188 Message: 1190

I thought the 1792 had only 1 roofing filter in the first IF. Maybe the thing to do is just swap out the module that adds the second filter. frank

--- On Wed, 12/10/08, Dan Rae <danrae@...> wrote:

From: Dan Rae <danrae@...>
Subject: Re: [Racal6790GM] Converting an RA1792 into a 6790
To: Racal6790GM@yahoogroups.com
Date: Wednesday, December 10, 2008, 5:10 PM

davesc50 wrote:
> Hi all,
> Don't know if this is at all possible or practical, but just wondering.
> As 6790's are rarer than hens teeth here in the UK and I have far to
> many (or so my wife says) RA1792's, is it possible to convert a RA1792
> to a 6790 just by changing the front panel assembly and operating
> firmware?
> T
Dave the early Marks of the 1792 have some similarities but then they diverged more and more in the later marks of the 1792.

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From the antenna input on there are detailed differences that will make it hard to do what you describe anyway.

Dan
ac6ao / g3ncr, who owns three or four of each with not too much aggro from SWMBO...

1191. Re: [Racal6790GM] Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-11 01:56:46 UTC
From: Dan Rae
Topic: 1188 Message: 1191

FRANCIS CARCIA wrote:
> I thought the 1792 had only 1 roofing filter in the first IF. Maybe
> the thing to do is just swap out the module that adds the second
> filter. frank
>
Frank it does, yes, but that is only one of the many differences, major
and minor, between them. The '92 has a 16 kHz roofer on the A2 board
and a ceramic filter in the 455 kHz chain on the A3 board.

There really is not a lot of point in considering this. IMHO.

Dan

1192. Re: [Racal6790GM] Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-11 02:27:37 UTC
From: toddroberts2001@aol.com
Topic: 1188 Message: 1192

In a message dated 12/10/2008 8:57:51 P.M. Eastern Standard Time,
danrae@... writes:

Frank it does, yes, but that is only one of the many differences, major
and minor, between them. The '92 has a 16 kHz roofer on the A2 board
and a ceramic filter in the 455 kHz chain on the A3 board.

There really is not a lot of point in considering this. IMHO.

Dan

I think it would be a lot simpler for Dave S. to just offer somebody a good
1792
in trade for a 6790? I am sure there are some collectors here in the
USA who would trade a good working 6790 for a good working 1792 with clear
LCDs.
Maybe sweeten the deal and offer free shipping from the UK. That might snag
him a 6790 from one of us Yanks!

73 Todd WD4NGG
**********Make your life easier with all your friends, email, and
favorite sites in one place. Try it now.
(http://www.aol.com/?optin=new-dp&icid=aolcom40vanity&ncid=emlcntaolcom00000010)

1193. Re: [Racal6790GM] Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-11 02:07:32 UTC
From: FRANCIS CARCIA
Topic: 1188 Message: 1193

Gee I should drop a couple 16 KHz '92 filters in my wide band 6830 in place of the 20 Khz parts.

--- On Wed, 12/10/08, Dan Rae <danrae@...> wrote:

From: Dan Rae <danrae@...>
Subject: Re: [Racal6790GM] Converting an RA1792 into a 6790
To: Racal6790GM@yahoogroups.com
Date: Wednesday, December 10, 2008, 8:56 PM

FRANCIS CARCIA wrote:
> I thought the 1792 had only 1 roofing filter in the first IF. Maybe
> the thing to do is just swap out the module that adds the second
> filter. frank
>
Frank it does, yes, but that is only one of the many differences, major
and minor, between them. The '92 has a 16 kHz roofer on the A2 board
and a ceramic filter in the 455 kHz chain on the A3 board.

There really is not a lot of point in considering this. IMHO.

Dan

1194. Re: Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-11 12:43:54 UTC
From: davesc50
Topic: 1188 Message: 1194

Hi,

Thanks for the advice guys. I knew there were plenty of differences
but wasn't sure how many. I know the 6790 is in some ways inferior to
the 1792, just thought it may be an easier way to get something
approaching a 6790 into my collection without having to import one.
If anyone in the group is interested in doing some form of swap / part
exe with me on a 6790 please feel free contact me of list. I currently
have 11 1792's, 6 of which have perfect displays, the others aren't so
good. I think the cost of shipping to and from the states may be
prohibitive though.

Cheers,
Dave.S.

--- In Racal6790GM@yahoogroups.com, toddroberts2001@... wrote:
>
> In a message dated 12/10/2008 8:57:51 P.M. Eastern Standard Time,
> danrae@... writes:
>
> Frank it does, yes, but that is only one of the many differences,
major
> and minor, between them. The '92 has a 16 kHz roofer on the A2 board
> and a ceramic filter in the 455 kHz chain on the A3 board.
>
> There really is not a lot of point in considering this. IMHO.
>
> Dan
>
> --
>
> I think it would be a lot simpler for Dave S. to just offer
somebody a good
> 1792
> in trade for a 6790? I am sure there are some collectors here in the
> USA who would trade a good working 6790 for a good working 1792 with
clear
> LCDs.
> Maybe sweeten the deal and offer free shipping from the UK. That
might snag
> him a 6790 from one of us Yanks!
>
> 73 Todd WD4NGG
> **********Make your life easier with all your friends, email, and
> favorite sites in one place. Try it now.
>

(http://www.aol.com/?optin=new-dp&icid=aolcom40vanity&ncid=emlcntaolcom00000010)
>

1195. Re: [Racal6790GM] Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-11 14:59:26 UTC
From: oscar873@aol.com
Topic: 1188 Message: 1195

dan
Where can I find a list of the differences?
Al?

-----Original Message-----
From: Dan Rae <danrae@...>
To: Racal6790GM@yahoogroups.com
Sent: Wed, 10 Dec 2008 2:10 pm
Subject: Re: [Racal6790GM] Converting an RA1792 into a 6790

davesc50 wrote:
> Hi all,
> Don't know if this is at all possible or practical, but just wondering.
> As 6790's are rarer than hens teeth here in the UK and I have far to
> many (or so my wife says) RA1792's, is it possible to convert a RA1792
> to a 6790 just by changing the front panel assembly and operating
> firmware?
> T
Dave the early Marks of the 1792 have some similarities but then they diverged more and more in the later marks of the 1792.

My question would be why bother? The 1792 is in many ways a much better radio for Ham use, with the 100 memories, mode memories and (mostly) more sensible tuning steps, provision of muting, and so on and so forth. The 6790/GM was a slightly dumbed down version of the 1792 with a lot of things specified by the US gov for their own reasons, BITE and ease of maintenance by module substitution mainly and flexibility of the plug in filters, not to mention those awful tuning steps.

From the antenna input on there are detailed differences that will make it hard to do what you describe anyway.

Dan
ac6ao / g3ncr, who owns three or four of each with not too much aggro from SWMBO...

1196. Re: [Racal6790GM] Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-11 15:16:48 UTC
From: Dan Rae
Topic: 1188 Message: 1196

oscar873@... wrote:
> dan
> Where can I find a list of the differences?
> Al
>
There isn't a list as such. You would have to compare the manuals for each to see the details. But you can start with the hardware... Metric in the '92. Then there are six (?) different versions of the 1792 anyway, and I have several pages of different firmware versions of the '92, as well as pages of the different filter sets fitted. They started off quite similar, but the 1792 got improved over the years while the /GM remained pretty much the same radio. I guess they were required to do that by their US customer. Even when Racal in the US made a more modern version of the troublesome cpu board using the Z80 processor, they went to a lot of trouble to keep it looking exactly the same from the user's point of view...

This thread just won't lie down and die :^)

Dan

1197. Re: [Racal6790GM] Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-21 19:01:42 UTC
From: gewingerd@netzero.com
Topic: 1188 Message: 1197
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1198. FW: [Racal6790GM] Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-22 00:45:59 UTC
From: George Georgevits
Topic: 1198 Message: 1198
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Gary,

Drawing small circuits with Excel is a really neat idea! It means you can send a circuit to virtually anyone, and they don't need specialist circuit drawing software. Have you built up a library of components?

I had a quick look at your circuit and you might want to make the following small improvement to how a resistor is displayed. If you highlight the two cells of the resistor rectangle and then go to Format/Cells and click the Merge Cells square, you get a better looking result. See attached.

BTW I have two 6790/GM's and a 1792. None of them are working at the moment. Hopefully I will get some time over the holiday period to have a go at these. I might have to call on you if things get sticky.

All the best for Xmas and the New year!
Regards,
George Georgevits

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]On Behalf Of gewingerd@...
Sent: Monday, 22 December 2008 6:02 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Converting an RA1792 into a 6790

Frank,

Had a fellow that needed a hang circuit for his RF Amp on a RA6790GM so I came up with the attached, it may have a bunch of uses.

Thanks,
And have a very Merry Christmas,
Gary

1199. RE: [Racal6790GM] Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-22 13:38:37 UTC
From: Carcia, Francis A HS
Topic: 1188 Message: 1199

Merry Christmas / Happy Hannukah to all you guys.
BTW check out soft Rock kits. A great way to have an SDR interface to
the 455 KHz output with a great spectrum display. WA1GFZ

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of gewingerd@...
Sent: Sunday, December 21, 2008 2:02 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Converting an RA1792 into a 6790

Frank,

Had a fellow that needed a hang circuit for his RF Amp on a RA6790GM so
I came up with the attached, it may have a bunch of uses.

Thanks,
And have a very Merry Christmas,
Gary

1200. Re: [Racal6790GM] Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-21 19:18:58 UTC
From: FRANCIS CARCIA
Topic: 1188 Message: 1200

Hi Gary,
Merry Christmas!
We had a foot of snow yesterday and about 4 inches so far today. I have a SDR set up hanging off the 6830 455 KHz IF. The softrock modules also work great on a Racal IF.
This is also great addition for the 6790.
I wonder if you found any interesting 6830 or 6840 stuff in your pile? Frank

--- On Sun, 12/21/08, gewingerd@... <gewingerd@...> wrote:

From: gewingerd@... <gewingerd@...>
Subject: Re: [Racal6790GM] Converting an RA1792 into a 6790
To: Racal6790GM@yahoogroups.com
Date: Sunday, December 21, 2008, 2:01 PM

Frank,

Had a fellow that needed a hang circuit for his RF Amp on a RA6790GM so I came up with the attached, it may have a bunch of uses.

Thanks,
And have a very Merry Christmas,
Gary

1201. Re: [Racal6790GM] Converting an RA1792 into a 6790

Yahoo group: Racal6790GM
Date: 2008-12-23 17:09:28 UTC
From: gewingerd@netzero.com
Topic: 1188 Message: 1201

Frank,

Merry Christmas

I will be in the shop for the next 2 weeks while work is shut down, I will see what I have in 6830 stuff.

Thanks,
Gary

1202. RA3701 backlighting

Yahoo group: Racal6790GM
Date: 2008-12-27 15:42:11 UTC
From: vk5abc
Topic: 1202 Message: 1202

Hello All
I have a RA3701 which the backlighting on the left and right displays do not work, the center is ok. Where are the lamps located? According to the circuit these lamps drivin by a vaiable pulse width modulation 250hz @ 10V rms square wave, will 5V leds work?
The manual has no details on the lamps and how they are connected.
All I know is they are T-1 5V .060A
Lee

1203. Re: [Racal6790GM] RA3701 backlighting

Yahoo group: Racal6790GM
Date: 2008-12-29 05:39:07 UTC
From: TC Dailey
Topic: 1202 Message: 1203

They're on a board, in front of the display, but behind the front panel - you must remove the front panel, and disassemble the boards to get to it - there's a fellow on here, who offers retrofit bulb (LED) assemblies. Originals were "grain-o-wheat" bulbs, and famous for going out, as the feeder voltage is TOO HIGH for them.

Tom

1204. Re: [Racal6790GM] RA3701 backlighting

Yahoo group: Racal6790GM
Date: 2008-12-29 14:13:15 UTC
From: Dan Rae
Topic: 1202 Message: 1204

TC Dailey wrote:
> They're on a board, in front of the display, but behind the front
> panel - you must remove the front panel, and disassemble the boards to
> get to it - there's a fellow on here, who offers retrofit bulb (LED)
> assemblies. Originals were "grain-o-wheat" bulbs, and famous for
> going out, as the feeder voltage is TOO HIGH for them.
>

Tom, sounds to me like you are referring to the RA6790/GM not the
RA3701. You cannot fit leds to that one.
dr

1205. Re: [Racal6790GM] RA3701 backlighting

Yahoo group: Racal6790GM
Date: 2008-12-29 14:55:08 UTC
From: TC Dailey
Topic: 1202 Message: 1205

Whoops... forgot to read - you are right (I am wrong).

----- Original Message -----
From: Dan Rae
To: Racal6790GM@yahoogroups.com
Sent: Monday, December 29, 2008 7:13 AM
Subject: Re: [Racal6790GM] RA3701 backlighting

TC Dailey wrote:
> They're on a board, in front of the display, but behind the front
> panel - you must remove the front panel, and disassemble the boards to
> get to it - there's a fellow on here, who offers retrofit bulb (LED)
> assemblies. Originals were "grain-o-wheat" bulbs, and famous for
> going out, as the feeder voltage is TOO HIGH for them.
>

Tom, sounds to me like you are referring to the RA6790/GM not the
RA3701. You cannot fit leds to that one.
dr

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1867 - Release Date: 12/28/2008 2:23 PM

1206. Re: [Racal6790GM] RA3701 backlighting

Yahoo group: Racal6790GM
Date: 2008-12-29 15:20:43 UTC
From: mparkinson1
Topic: 1202 Message: 1206

gewingerd@...
THis is the guy you need to help you on the back lighting of your receiver. Tell him I send you his is the best on these receivers for sure.
Matt Parkinson Military Equipment & R 390A Depot Center

1207. 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-06 16:17:09 UTC
From: oscar873@aol.com
Topic: 1207 Message: 1207

What does the GM stand for?
?What are the differences between the models?
Al

1208. Re: [Racal6790GM] 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-06 18:39:53 UTC
From: gewingerd@netzero.com
Topic: 1207 Message: 1208
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1209. Re: [Racal6790GM] 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-07 01:54:26 UTC
From: Tom B
Topic: 1207 Message: 1209

Gary,

Do you know about how many 6790's were made? There is one on ebay now,
but I rarely see them for sale.

Tom Bryan
N3AJA

gewingerd@... wrote:
> GM is the Military version of the receiver. The 6790 is the pre-unit before the RA6790/GM (also called R-2174,full military version, has the contract plate on the front of the receiver). All the cards plug into the RA6790/GM and the unit has over 225 different configurations with filters and all the different cards. The receivers sold for $5K to $24K when the last ones were built.
> I have attached the configuration sheet for the most common RA6790/GM
>
> Thanks,
> Gary
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

1210. Re: [Racal6790GM] 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-07 02:45:47 UTC
From: mparkinson1
Topic: 1207 Message: 1210

Tom you must not look at ebay very offen there is almost alway Racal 6790Gm for sale on ebay.
About a month ago I sold about 10 of them.
This receiver is quite common.
Working ones sell between 600.00 to 1500.00 depending what installed in them.
All filters installed and what kind of filters installed makes a difference as to price.
The one that is up there right now would really be at the low end being it doesnt' work right it has problems and several issues even though the seller isnt' stating everything.
I need parts for these all the time and buying a non working receiver is what I want to get the parts for a cheaper rate and make repairs.
Gary Wingerd is the real expert being he use to work for Racal and has a pretty good supply of parts and he to is always on the look out for parts like me.
Matt Parkinson Military Equipment & R 390A Depot Center

1211. Re: [Racal6790GM] 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-07 02:51:57 UTC
From: mparkinson1
Topic: 1207 Message: 1211

Gary that Racal 6790 receiver on ebay that I am bidding on what is that little board back by the antenna input.
Looks like someone added this on have you ever seen this before.
I hope to get this one just for parts I have one more to finish up on and then that its.
I need the front pane because of the one that I have is bent and a couple of board out of it if its they are working I know there is more problems with the one up there but that ok for me right now.
Matt Parkinson Military Equipment & R 390A Depot Center

1212. Re: [Racal6790GM] 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-07 10:19:34 UTC
From: gewingerd@netzero.com
Topic: 1207 Message: 1212

Tom,

Several hundred 6790's were built and the last 200 were sold for scrap.

Thanks,
Gary

1213. Re: [Racal6790GM] 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-07 10:27:12 UTC
From: gewingerd@netzero.com
Topic: 1207 Message: 1213

Matt,

By the looks of it I would say some kind of audio card because of the caps, I would need a number off the card to check on it.
I was bidding to, but now I think I am backing away from it.

Thanks,
Gary

1214. Re: [Racal6790GM] 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-07 13:29:03 UTC
From: Tom B
Topic: 1207 Message: 1214

Matt,

I look at ebay very often. I mentioned the 6790 as being rare, not the 6790/GM. The GM model is very common. There are usually several per week listed. The 6790 that is on ebay right now is the only one I have seen in over a year. I own two 6790's, plus a bunch of 6790/GMs. (not to mention 6830, 6830JD, 6793, and others.)

Tom

> Tom you must not look at ebay very offen there is almost alway Racal
> 6790Gm for sale on ebay.
> About a month ago I sold about 10 of them.
> This receiver is quite common.
> Working ones sell between 600.00 to 1500.00 depending what installed in
> them.
> All filters installed and what kind of filters installed makes a
> difference as to price.
> The one that is up there right now would really be at the low end being it
> doesnt' work right it has problems and several issues even though the
> seller isnt' stating everything.
> I need parts for these all the time and buying a non working receiver is
> what I want to get the parts for a cheaper rate and make repairs.
> Gary Wingerd is the real expert being he use to work for Racal and has a
> pretty good supply of parts and he to is always on the look out for parts
> like me.
> Matt Parkinson Military Equipment & R 390A Depot Center

1215. Re: [Racal6790GM] 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-07 14:47:21 UTC
From: Mil Radman
Topic: 1207 Message: 1215

Gary,
What did the /GM stand for? Was it Government/Military?
And of all the different configurations that were listed on your spreadsheet. Do you have something readily available that would explain the differences between the individual cards and what their purpose was specifically in relation to each other?
I know that's asking for a lot of information but I was wondering if you had something on hand.
I had used a R-2174 during Desert Storm as our company had a few of them. We used them mainly to receive WWV at 18 minutes past the hour to obtain solar flux numbers in order to enter them into our propagation program. We also used them in the Company COC to receive various HF unencrypted signals. Ever since then, I had always wanted one and received mine a few years ago from Earl who had recently passed away.

Thanks for being here Gary,

John

--- On Wed, 1/7/09, gewingerd@... <gewingerd@...> wrote:
From: gewingerd@... <gewingerd@...>
Subject: Re: [Racal6790GM] 6790 or 6790/GM
To: Racal6790GM@yahoogroups.com
Date: Wednesday, January 7, 2009, 4:27 AM

Matt,

By the looks of it I would say some kind of audio card because of the caps, I would need a number off the card to check on it.
I was bidding to, but now I think I am backing away from it.

Thanks,
Gary

Yahoo! Groups Links

1216. Re: [Racal6790GM] 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-07 15:37:46 UTC
From: oscar873@aol.com
Topic: 1207 Message: 1216

Gary,
?thank you for the 6790/GM information.
Al

-----Original Message-----
From: gewingerd@... <gewingerd@...>
To: Racal6790GM@yahoogroups.com
Sent: Wed, 7 Jan 2009 2:27 am
Subject: Re: [Racal6790GM] 6790 or 6790/GM

Matt,

By the looks of it I would say some kind of audio card because of the caps, I would need a number off the card to check on it.
I was bidding to, but now I think I am backing away from it.

Thanks,
Gary

Yahoo! Groups Links

1217. Re: [Racal6790GM] 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-07 18:54:23 UTC
From: gewingerd@netzero.com
Topic: 1207 Message: 1217

John,

What did the /GM stand for? Was it Government/Military?
Worked for RACAL for 21 years and my best guess would be Government/Military

And of all the different configurations that were listed on your spreadsheet. Do you have something readily available that would explain the differences between the individual cards and what their purpose was specifically in relation to each other?
The A5 8390 cards are the ISB cards
The different A6A2 cards are 8392 F8 Microprocessor
4100030 Z80 microprocessor with different software
This is some of the info, all the information would have been in the sales book for the receivers, I have one somewhere I just have to locate it.

Thanks,
Gary

1218. Re: [Racal6790GM] 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-07 20:09:28 UTC
From: Tom B
Topic: 1207 Message: 1218

Gary,

I was told by someone that worked for Racal that GM stood for Geoff Meeks(sp?). He did the redesign work on the 6790 to make the 6790/GM. Does that name ring any bells?

I was told a similar story for the 6830 and 6830JD, but I can't remember what the JD stood for.

Tom

> What did the /GM stand for? Was it Government/Military?
> Worked for RACAL for 21 years and my best guess would be
> Government/Military
>
> And of all the different configurations that were listed on your
> spreadsheet. Do you have something readily available that would explain
> the differences between the individual cards and what their purpose was
> specifically in relation to each other?
> The A5 8390 cards are the ISB cards
> The different A6A2 cards are 8392 F8 Microprocessor
> 4100030 Z80 microprocessor with different software
> This is some of the info, all the information would have been in the sales
> book for the receivers, I have one somewhere I just have to locate it.
>
> Thanks,
> Gary
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

1219. Re: [Racal6790GM] 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-08 00:37:17 UTC
From: Tom B
Topic: 1207 Message: 1219

Matt,

You can see an RA6790 on ebay - item # 250350539410 . From a distance it looks like a GM but I don't think any electrical or mechanical parts are interchangeable with the GM with the possible exception of the mode display.

Tom

mparkinson1 wrote:
> Tom you must not look at ebay very offen there is almost alway Racal
> 6790Gm for sale on ebay.
> About a month ago I sold about 10 of them.
> This receiver is quite common.
> Working ones sell between 600.00 to 1500.00 depending what installed
> in them.
> All filters installed and what kind of filters installed makes a
> difference as to price.
> The one that is up there right now would really be at the low end
> being it doesnt' work right it has problems and several issues even
> though the seller isnt' stating everything.
> I need parts for these all the time and buying a non working receiver
> is what I want to get the parts for a cheaper rate and make repairs.
> Gary Wingerd is the real expert being he use to work for Racal and has
> a pretty good supply of parts and he to is always on the look out for
> parts like me.
> Matt Parkinson Military Equipment & R 390A Depot Center
>

1220. Re: [Racal6790GM] 6790 or 6790/GM

Yahoo group: Racal6790GM
Date: 2009-01-08 10:26:53 UTC
From: gewingerd@netzero.com
Topic: 1207 Message: 1220

Tom,

I was told by someone that worked for Racal that GM stood for Geoff Meeks(sp?). He did the redesign work on the 6790 to make the 6790/GM. Does that name ring any bells? BINGO the fog has cleared!(BGW = Before Gary Wingerd) I started working for RE Grimm Company that built Demods and VHF UHF Receiver, RACAL bought the company about 1 year later. The RA6790GM was redesigned in 1979-1980, I started work in 1981.

I was told a similar story for the 6830 and 6830JD, but I can't remember what the JD stood for. John Dingley!

Gary

1221. Racal RA6790/GM #16 error

Yahoo group: Racal6790GM
Date: 2009-01-21 02:36:24 UTC
From: vk5abc
Topic: 1221 Message: 1221

Hello All

I keep getting a 16 error I am not sure that the filter is faulty.
What is the most common cause of this fault?
Could it be to do with the diode switch? The filter is a blue Collins
LSB mechanical filter. It receives ok on AM and CW
73 Lee

1222. Re: [Racal6790GM] Racal RA6790/GM #16 error

Yahoo group: Racal6790GM
Date: 2009-01-21 10:14:46 UTC
From: gewingerd@netzero.com
Topic: 1221 Message: 1222
Attachments: 5 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1223. Re: Racal RA6790/GM #16 error

Yahoo group: Racal6790GM
Date: 2009-01-21 14:59:05 UTC
From: vk5abc
Topic: 1221 Message: 1223

It worked ok before I changed the A4 board which only had two filters one is a lsb mechanical filter.This board has 6 filters. I have noticed that the 15V rail on the A4 board is only 14.3V

Lee

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Lee,
>
> I have attached a couple of files that may help. You have to listen to the audio on the receiver while the BITE is running. The problem could be on the A4, A7, A8 or the A2 card.
> If the receiver can go to zero MHz on the front panel do so in CW and tune the BFO to +8 KHz and listen to the audio with each filter and see if there is a large audible difference, this is the best way to check the filters.
>
> Thanks,
> Gary
>

1224. Re: [Racal6790GM] Re: Racal RA6790/GM #16 error

Yahoo group: Racal6790GM
Date: 2009-01-21 16:43:47 UTC
From: gewingerd@netzero.com
Topic: 1221 Message: 1224

Lee,

You might want to try the forced filter and see if BITE will run, if it does not I still repair the cards for $35.00 an hour plus parts and shipping.

Thanks,
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733

1225. Re: Racal RA6790/GM #16 error

Yahoo group: Racal6790GM
Date: 2009-01-22 00:45:23 UTC
From: vk5abc
Topic: 1221 Message: 1225

Hello Gary
Thanks for your help, I will try the forced filter. Do you have any unpopulated backlighting boards for the RA6790/GM?

Lee
--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Lee,
>
> You might want to try the forced filter and see if BITE will run, if it does not I still repair the cards for $35.00 an hour plus parts and shipping.
>
> Thanks,
> Gary E. Wingerd
> 9107 Jordan Rd.
> Fairplay, MD 21733
>

1226. Re: Racal RA6790/GM #16 error

Yahoo group: Racal6790GM
Date: 2009-01-22 02:40:02 UTC
From: vk5abc
Topic: 1221 Message: 1226

Hello Gary
Can you send this again as my inbox was full?

Lee

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...>
wrote:
>
> Lee,
>
> I have attached a couple of files that may help. You have to
listen to the audio on the receiver while the BITE is running. The
problem could be on the A4, A7, A8 or the A2 card.
> If the receiver can go to zero MHz on the front panel do so in CW
and tune the BFO to +8 KHz and listen to the audio with each filter
and see if there is a large audible difference, this is the best way
to check the filters.
>
> Thanks,
> Gary
>

1227. Re: [Racal6790GM] Re: Racal RA6790/GM #16 error

Yahoo group: Racal6790GM
Date: 2009-01-22 10:03:22 UTC
From: gewingerd@netzero.com
Topic: 1221 Message: 1227

Lee,

Yes I have some of the LED boards for the front panel, the raw card no parts is $45.00 plus shipping.

Thanks,
Gary

1228. Re: [Racal6790GM] Re: Racal RA6790/GM #16 error

Yahoo group: Racal6790GM
Date: 2009-01-22 14:35:35 UTC
From: Bob Betts
Topic: 1221 Message: 1228

Hi Gary:
I am not familiar with the LED version of the lighting board.
What additional components are needed to populate one -- type of LEDs, etc?
Also, are complete boards available?
Many thanks,
Bob, N1KPR

http://www.bobsamerica.com
Music, Audio, Radio
"It's all good."

--- On Wed, 1/21/09, vk5abc <vk5abc@...> wrote:

From: vk5abc <vk5abc@...>
Subject: [Racal6790GM] Re: Racal RA6790/GM #16 error
To: Racal6790GM@yahoogroups.com
Date: Wednesday, January 21, 2009, 7:45 PM

Hello Gary
Thanks for your help, I will try the forced filter. Do you have any
unpopulated backlighting boards for the RA6790/GM?

Lee
--- In Racal6790GM@ yahoogroups. com, "gewingerd@. .." <gewingerd@. ..>
wrote:
>
> Lee,
>
> You might want to try the forced filter and see if BITE will run,
if it does not I still repair the cards for $35.00 an hour plus
parts and shipping.
>
> Thanks,
> Gary E. Wingerd
> 9107 Jordan Rd.
> Fairplay, MD 21733
>

1229. Re: [Racal6790GM] Re: Racal RA6790/GM #16 error

Yahoo group: Racal6790GM
Date: 2009-01-22 16:40:34 UTC
From: gewingerd@netzero.com
Topic: 1221 Message: 1229
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1230. Alternate Filters

Yahoo group: Racal6790GM
Date: 2009-01-22 17:55:53 UTC
From: bobbetts06
Topic: 1230 Message: 1230

Hi Gary and All:
I'm working on a temporary assignment which requires off-air monitoring and (remote) sound checks for an AM broadcast station.
Does anyone have any experience with using alternate filters (Murata, etc.) with the 6790GM? I'd be particularly interested in what has to be done for matching the filters -- impedance matching, cap removal, added resistor networks, etc., which are not really in my area of expertise.
We'll need a fairly good shape factor for 4K, 5K, 6K, and 8K.
I had been using my Kiwa MAP unit with some success, but really need a more simple and definitive method so the (probably unskilled) operator won't mess up everything. The simplicity, low noise, stability, and high dynamic range of the 6790GM is ideal for this application.
Thanks in advance,
Bob

1231. Re: [Racal6790GM] Alternate Filters

Yahoo group: Racal6790GM
Date: 2009-01-22 19:13:07 UTC
From: gewingerd@netzero.com
Topic: 1230 Message: 1231

Bob,

The best guy to answer would be at http://www.sherweng.com/, this fellow makes filters for the receivers of the world.

thanks,
Gary

1232. Re: [Racal6790GM] Alternate Filters

Yahoo group: Racal6790GM
Date: 2009-01-22 21:09:13 UTC
From: mstangelo@comcast.net
Topic: 1230 Message: 1232

Bob,

I had surplus ICOM and Collins 455khz filters and 2 spare slots in my 6790/GM. I attached leads with the appropriate diameter pins to the input, output and ground of the filters and inserted them into my 6790. I ran the self test and it discovered the filters. The ICOM made a nice sounding SSB filter and the Collins came up as a 4.2khz filter which I use and AM. Murata filters may work as wider AM filters.

If you have 455khz filters hanging around I recomment installing them into the 6790 and trying them out.

If I had the specs for the filters I'd design a LCinput and output networks to mach the radio's impedance.

Mike N2MS

----- Original Message -----

From: bobbetts06

To: Racal6790GM@yahoogroups.com

Sent: Thu, 22 Jan 2009 17:55:53 +0000 (UTC)

Subject: [Racal6790GM] Alternate Filters

Hi Gary and All:

I'm working on a temporary assignment which requires off-air monitoring

and (remote) sound checks for an AM broadcast station.

Does anyone have any experience with using alternate filters (Murata,

etc.) with the 6790GM? I'd be particularly interested in what has to be

done for matching the filters -- impedance matching, cap removal, added

resistor networks, etc., which are not really in my area of expertise.

We'll need a fairly good shape factor for 4K, 5K, 6K, and 8K.

I had been using my Kiwa MAP unit with some success, but really need a

more simple and definitive method so the (probably unskilled) operator

won't mess up everything. The simplicity, low noise, stability, and

high dynamic range of the 6790GM is ideal for this application.

Thanks in advance,

1233. Re: [Racal6790GM] Alternate Filters

Yahoo group: Racal6790GM
Date: 2009-01-22 22:04:19 UTC
From: Dan Rae
Topic: 1230 Message: 1233

mstangelo@... wrote:
> Murata filters may work as wider AM filters.

I have used them in place of the wired bypass "16 kHz" setting on some of the Racals. I found some Muratas that were about 8 or 9 kHz wide and about the right impedance. Others have used the Collins "Low Cost" series of mechanical filters with great success. Todd Roberts made some very nice adapters that were plug in with a 5.7 kHz Collins on it. Great sounding AM.

With a bit of enterprise you can use a wide variety of filters in this radio. The 6790/GM I have in my rack does not have a single original plug in filter in it...

Dan
ac6ao

1234. Re: [Racal6790GM] Alternate Filters

Yahoo group: Racal6790GM
Date: 2009-01-22 23:11:26 UTC
From: Bob Betts
Topic: 1230 Message: 1234

Hi Mike:
Actually, I do have a couple of filter programs, but I wasn't sure what impedance the Racal was looking for...5K I think, but I really don't want to guess.
Thanks for the info,
Bob

http://www.bobsamerica.com
Music, Audio, Radio
"It's all good."

--- On Thu, 1/22/09, mstangelo@...t <mstangelo@...> wrote:

From: mstangelo@... <mstangelo@comcast.net>
Subject: Re: [Racal6790GM] Alternate Filters
To: Racal6790GM@yahoogroups.com
Cc: Racal6790GM@yahoogroups.com
Date: Thursday, January 22, 2009, 4:09 PM

Bob,

I had surplus ICOM and Collins 455khz filters and 2 spare slots in my 6790/GM. I attached leads with the appropriate diameter pins to the input, output and ground of the filters and inserted them into my 6790. I ran the self test and it discovered the filters. The ICOM made a nice sounding SSB filter and the Collins came up as a 4.2khz filter which I use and AM. Murata filters may work as wider AM filters.

If you have 455khz filters hanging around I recomment installing them into the 6790 and trying them out.

If I had the specs for the filters I'd design a LCinput and output networks to mach the radio's impedance.

Mike N2MS

----- Original Message -----

From: bobbetts06

To: Racal6790GM@ yahoogroups. com

Sent: Thu, 22 Jan 2009 17:55:53 +0000 (UTC)

Subject: [Racal6790GM] Alternate Filters

Hi Gary and All:

I'm working on a temporary assignment which requires off-air monitoring

and (remote) sound checks for an AM broadcast station.

Does anyone have any experience with using alternate filters (Murata, etc.) with the 6790GM? I'd be particularly interested in what has to be done for matching the filters -- impedance matching, cap removal, added resistor networks, etc., which are not really in my area of expertise. We'll need a fairly good shape factor for 4K, 5K, 6K, and 8K.

I had been using my Kiwa MAP unit with some success, but really need a more simple and definitive method so the (probably unskilled) operator won't mess up everything. The simplicity, low noise, stability, and high dynamic range of the 6790GM is ideal for this application.

Thanks in advance,

1235. Re: [Racal6790GM] Alternate Filters

Yahoo group: Racal6790GM
Date: 2009-01-23 14:04:45 UTC
From: mstangelo@comcast.net
Topic: 1230 Message: 1235

Bob,

Maybe Gary can tell us what impedance the 6790 filter have to match.

Have you also considered one the those "Softrock" SDR receivers? I believe they sell a kit which can be used as a 455khz panadapter. You can connect it to the 455khz output of the 6790 and use the configurable filter bandwidth of the Flexradio PowerSDR program used with the Softrock kits.

Mike N2MS

----- Original Message -----

From: Bob Betts

To: Racal6790GM@yahoogroups.com

Sent: Thu, 22 Jan 2009 23:11:26 +0000 (UTC)

Subject: Re: [Racal6790GM] Alternate Filters

1236. RE: [Racal6790GM] Alternate Filters

Yahoo group: Racal6790GM
Date: 2009-01-23 17:34:35 UTC
From: Carcia, Francis A HS
Topic: 1230 Message: 1236

Racal is set up for 5 K resistive input, just look at the pass band ripple as you tune across a carrier. If you need to pull the Z down then add a resistor input to ground. This will increase the loss a bit but there is plenty of gain ahead of the filters. frank

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of bobbetts06
Sent: Thursday, January 22, 2009 12:56 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Alternate Filters

Hi Gary and All:
I'm working on a temporary assignment which requires off-air monitoring and (remote) sound checks for an AM broadcast station.
Does anyone have any experience with using alternate filters (Murata, etc.) with the 6790GM? I'd be particularly interested in what has to be done for matching the filters -- impedance matching, cap removal, added resistor networks, etc., which are not really in my area of expertise.
We'll need a fairly good shape factor for 4K, 5K, 6K, and 8K.
I had been using my Kiwa MAP unit with some success, but really need a more simple and definitive method so the (probably unskilled) operator won't mess up everything. The simplicity, low noise, stability, and high dynamic range of the 6790GM is ideal for this application.
Thanks in advance,
Bob

1237. Numeric Keypad.

Yahoo group: Racal6790GM
Date: 2009-02-01 12:28:12 UTC
From: davesc50
Topic: 1237 Message: 1237

Hi all,
Thanks to some very helpfull group members I now have a RA6790/GM receiver and have it working well.
I still have a minor issue with the numeric keypad however, in that key #3 does not function. I have not done any fault finding on it so far, so it may be the keypad or the logic on the A9 PCB.
The keypad has however seen better days with the ENTER, #4 and 0 keys all having lost there printing.
As it's in this state I propose replacing it and if the fault is still present taking a look at the logic.

To that end does any group member know of a source of replacement NOS or good second user keypads?
I am willing to pay any reasonable shipping / import costs on top of the cost of the assembly. If anyone in the UK has one though then so much the better. Please feel free to contact me of list.

Thanks,
Dave.S.

1238. Re: [Racal6790GM] Numeric Keypad.

Yahoo group: Racal6790GM
Date: 2009-02-01 13:07:23 UTC
From: gewingerd@netzero.com
Topic: 1237 Message: 1238
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1239. 6790/GM Lights

Yahoo group: Racal6790GM
Date: 2009-02-01 19:45:25 UTC
From: Bob Betts
Topic: 1239 Message: 1239

Gary:
I just wanted to publicly thank you for the LED lighting kit. I built and installed it this morning -- total time, about 2.5 - 3 hrs.
I'm not terribly familiar with the 6790, so there was somewhat of a learning curve as to the architecture of the insides of the radio.
Regarding the trimming of the diffusion plate, I used an 80 grit flap wheel, mounted in a bench grinder, followed by some light filing to clean things up. It made the operation fast and very professional.
Thanks again, the receiver looks beautiful now.
I highly recommend this conversion to anyone who has an unlit display.
Bob, N1KPR

http://www.bobsamerica.com
Music, Audio, Radio
"It's all good."

1240. RE: [Racal6790GM] LED lighting replacement.

Yahoo group: Racal6790GM
Date: 2009-02-02 06:01:52 UTC
From: Ed Tanton
Topic: 934 Message: 1240
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Gary. I have decided to the lighting kit for the '6790. Since this note I made to myself is about a year old, I figured I'd better ask about the price/etc. Let me know, and the PayPal addr (this one I think?) Thanks.

73 Ed Tanton N4XY <n4xy@...>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: http://www.n4xy.com

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP K2 (Field Tester) #00057
QRP-L #165

Wag more - Bark Less

1241. RE: [Racal6790GM] LED lighting replacement.

Yahoo group: Racal6790GM
Date: 2009-02-02 17:25:05 UTC
From: gewingerd@netzero.com
Topic: 934 Message: 1241

Ed,

The price on the kit and the complete board have gone up due to price of parts.
LED Board KIT $75.00 Each plus shipping
LED Board for the Front Panel Complete $100.00 Each plus shipping

Shipping to the USA would be $6.00 more. My paypal is gewingerd@... or my address is:

GARY E. WINGERD
9107 JORDAN RD.
FAIRPLAY, MD 21733

Thanks,
Gary

1242. RE: [Racal6790GM] LED lighting replacement.

Yahoo group: Racal6790GM
Date: 2009-02-03 00:33:27 UTC
From: Ed Tanton
Topic: 934 Message: 1242

Thanks Gary will get it done one day this week-I'll do the kit. Out of curiosity, you ever try white for the LEDs? I have some VERY bright whites I imported direct from HK. I don't remember if I got any that were small enough, but probably did. (I have mainly been playing with the larger, 10mm, slightly less than 1/2W 250,000 cp white LEDs from the same place. BRIGHT!!!)

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of gewingerd@...
Sent: Monday, February 02, 2009 12:25 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] LED lighting replacement.

Ed,

The price on the kit and the complete board have gone up due to price of parts.
LED Board KIT $75.00 Each plus shipping
LED Board for the Front Panel Complete $100.00 Each plus shipping

Shipping to the USA would be $6.00 more. My paypal is gewingerd@...
or my address is:

GARY E. WINGERD
9107 JORDAN RD.
FAIRPLAY, MD 21733

Thanks,
Gary

Yahoo! Groups Links

1243. RE: [Racal6790GM] LED lighting replacement.

Yahoo group: Racal6790GM
Date: 2009-02-03 10:11:02 UTC
From: gewingerd@netzero.com
Topic: 934 Message: 1243

Ed,

No I have no tried the white LED's because they would probably be to bright and I try to stay with the original yellow color. OK on the KIT later on.

Thanks,
Gary

1244. new member, radio, problems

Yahoo group: Racal6790GM
Date: 2009-02-08 15:42:20 UTC
From: hysell.david
Topic: 1244 Message: 1244

I have a 6790/GM with a number of unusual features and problems and would appreciate any insights the group could provide. The unit is dated '91. It has factory LEDs for dial lighting, the ISB option, and the remote option. It has a special VLF input and tunes from ~0 Hz - 30 MHz.

1. There is a large board mounted above the A4 board. It appears to have a notch filter on it as well as some unpopulated sections, but I don't know its function. What is this board, and how can I access its functionality?

2. The A2 board (an probably other boards, althouth I haven't looked closely) does not match the stock photos and schematics I've seen for typical 6790's. It has a greater parts count, and the mixer is larger than the usual one and is powered through the LO inputs. The board seems to be injecting strong noise (intermittently, reminiscent of spherics) that diminishes with time as the unit warms up. I suspect this is coming from the mixer or the last LO amplifier. Is anyone familiar with this problem?

3. BITE gives error 99 and sometimes error 50. It does not correctly assign filter bandwidths, although I can force these to be correct.

4. Gain falls off intermittently but can be restored by cycling the power a few times. Changing the frequency/mode/filter setting does not fix the problem. The output of A3 does not decline when this happens, so the problem occurs downstream of that.

Thanks in advance,

1245. Re: new member, radio, problems

Yahoo group: Racal6790GM
Date: 2009-02-08 16:04:25 UTC
From: vk5abc
Topic: 1244 Message: 1245

Hello David
Would you mind sending me some photos of the A4 and A2 boards?

73 Lee

--- In Racal6790GM@yahoogroups.com, "hysell.david"
<hysell.david@...> wrote:
>
> I have a 6790/GM with a number of unusual features and problems and
> would appreciate any insights the group could provide. The unit is
> dated '91. It has factory LEDs for dial lighting, the ISB option,
and
> the remote option. It has a special VLF input and tunes from ~0
Hz -
> 30 MHz.
>
> 1. There is a large board mounted above the A4 board. It appears to
> have a notch filter on it as well as some unpopulated sections,
but I
> don't know its function. What is this board, and how can I access
its
> functionality?
>
> 2. The A2 board (an probably other boards, althouth I haven't
looked
> closely) does not match the stock photos and schematics I've seen
for
> typical 6790's. It has a greater parts count, and the mixer is
larger
> than the usual one and is powered through the LO inputs. The board
> seems to be injecting strong noise (intermittently, reminiscent of
> spherics) that diminishes with time as the unit warms up. I suspect
> this is coming from the mixer or the last LO amplifier. Is anyone
> familiar with this problem?
>
> 3. BITE gives error 99 and sometimes error 50. It does not
correctly
> assign filter bandwidths, although I can force these to be correct.
>
> 4. Gain falls off intermittently but can be restored by cycling the
> power a few times. Changing the frequency/mode/filter setting does
not
> fix the problem. The output of A3 does not decline when this
happens,
> so the problem occurs downstream of that.

>
> Thanks in advance,
>

1246. FW: [Premium-Rx] More on Racal 6790/GM R-2174(B)

Yahoo group: Racal6790GM
Date: 2009-02-08 16:59:55 UTC
From: Gordon & Lois Duff
Topic: 1246 Message: 1246

Here is an old post of mine that ma relate to the radio under discussion. I have a block diagram that I developed and other information. I tried to put it on the Premium Radio database, but got no interest. I will be happy to share with anyone.

Gordon, KA2NLM

> -----Original Message-----
> From: Gordon & Lois Duff [mailto:glduff@...]
> Sent: Sunday, October 30, 2005 6:04 PM
> To: premium-rx@...
> Subject: [Premium-Rx] More on Racal 6790/GM R-2174(B)
>
> I have continued to investigate this radio and am still looking for help
> to
> understand how it works. I have traced the wiring for the various
> additional boards and put the radio back together.
>
> In a previous posting I mentioned that the display flashed below a certain
> frequency. The correct frequency is 2 kHz. Below 2k the tuning works but
> the frequency display flashes.
>
> Another operating difference is an apparent internal switch when the
> frequency passes thru the 110 kHz range. This seems to differ based on
> traversing up or down. I will investigate this more later.
>
> At MW and higher the radio's audio seems fine via headphones for AM, SSB,
> and CW.
>
> I have compared boards at a high level with 2 other 6790 A versions and
> they
> are apparently the same except for the A2 board. Based on the signal
> paths
> I don't see why A2 would make any difference. Need to check this out.
>
> On the extra boards:
>
> 1. The A23 board is connected to the VLF antenna input and to the A25
> board; I guess it is a low pass filter.
>
> 2. The A14 board supplies the external 3rd IF output at about 15kHz, and
> also the IF output at 455kHz (it may get this via A24 and A25). It
> appears
> to do product detection of some sort via a CD4049. It has a dip switch,
> too!

>
> 3. The A15 board supplies AM and FM output.
>
> 4. A24 gets the 455kHz IF from A8(J6) and returns it to A4(J1). It has a
> MCL RAY-6 mixer, among other components. It has a great big box labeled
> as
> a notch filter with a center frequency of 277.777 kHz and a bandwidth of
> 128
> kHZ.
>
> 5. A25 get RF via the A23, 20MHz from A8(J8) and a bunch of stuff from
> A24.
> It also has a MCL RAY-6 mixer.
>
> I am going to try and put this all in a diagram, but at this point I have
> two questions:
>
> A. Does anyone know anymore?
> B. Does anyone care, or should I stop posting?
>
> Gordon, KA2NLM
>

No virus found in this outgoing message.
Checked by AVG.
Version: 7.5.552 / Virus Database: 270.10.19/1939 - Release Date: 2/7/2009
1:39 PM

1247. Re: [Racal6790GM] new member, radio, problems

Yahoo group: Racal6790GM
Date: 2009-02-08 17:33:02 UTC
From: gewingerd@netzero.com
Topic: 1244 Message: 1247
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1248. Re: new member, radio, problems

Yahoo group: Racal6790GM
Date: 2009-02-08 20:46:09 UTC
From: hysell.david
Topic: 1244 Message: 1248

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Might be a R2174B, See attached
>
> Thanks,
> Gary
>

Gary et al.,

Thanks for the comments. Yes, it seems to be an R2174B. This is
helpful; I should be able to track down the relevant documentation now.

Dave

1249. RE: [Racal6790GM] Re: new member, radio, problems

Yahoo group: Racal6790GM
Date: 2009-02-08 20:57:37 UTC
From: Gordon & Lois Duff
Topic: 1244 Message: 1249

Dave,

If you find anything beyond what I gave you (block diagram & comments) and Gary's list, please let me know. I have not been able to find anything.

Gordon, KA2NLM

No virus found in this outgoing message.
Checked by AVG.
Version: 7.5.552 / Virus Database: 270.10.19/1939 - Release Date: 2/7/2009 1:39 PM

1250. Re: [Racal6790GM] FW: [Premium-Rx] More on Racal 6790/GM R-2174(B)

Yahoo group: Racal6790GM
Date: 2009-02-09 15:08:28 UTC
From: oscar873@aol.com
Topic: 1246 Message: 1250

any additions are all ways welcome. Little is known about this radio.
Al

-----Original Message-----
From: Gordon & Lois Duff <GLDuff@...>
To: Racal6790GM@yahoogroups.com
Sent: Sun, 8 Feb 2009 8:59 am
Subject: [Racal6790GM] FW: [Premium-Rx] More on Racal 6790/GM R-2174(B)

Here is an old post of mine that ma relate to the radio under discussion. I have a block diagram that I developed and other information. I tried to put it on the Premium Radio database, but got no interest. I will be happy to share with anyone.

Gordon, KA2NLM

> -----Original Message-----
> From: Gordon & Lois Duff [mailto:glduff@...]
> Sent: Sunday, October 30, 2005 6:04 PM
> To: premium-rx@...
> Subject: [Premium-Rx] More on Racal 6790/GM R-2174(B)
>
> I have continued to investigate this radio and am still looking for help
> to
> understand how it works. I have traced the wiring for the various
> additional boards and put the radio back together.
>
> In a previous posting I mentioned that the display flashed below a certain
> frequency. The correct frequency is 2 kHz. Below 2k the tuning works but
> the frequency display flashes.
>
> Another operating difference is an apparent internal switch when the
> frequency passes thru the 110 kHz range. This seems to differ based on
> traversing up or down. I will investigate this more later.
>
> At MW and higher the radio's audio seems fine via headphones for AM, SSB,
> and CW.
>
> I have compared boards at a high level with 2 other 6790 A versions and
> they
> are apparently the same except for the A2 board. Based on the signal
> paths
> I don't see why A2 would make any difference. Need to check this out.
>
> On the extra boards:

>
> 1. The A23 board is connected to the VLF antenna input and to the A25
> board; I guess it is a low pass filter.
>
> 2. The A14 board supplies the external 3rd IF output at about 15kHz, and
> also the IF output at 455kHz (it may get this via A24 and A25). It
> appears
> to do product detection of some sort via a CD4049. It has a dip switch,
> too!
>
> 3. The A15 board supplies AM and FM output.
>
> 4. A24 gets the 455kHz IF from A8(J6) and returns it to A4(J1). It has a
> MCL RAY-6 mixer, among other components. It has a great big box labeled
> as
> a notch filter with a center frequency
of 277.777 kHz and a bandwidth of
> 128
> kHZ.
>
> 5. A25 get RF via the A23, 20MHz from A8(J8) and a bunch of stuff from
> A24.
> It also has a MCL RAY-6 mixer.
>
> I am going to try and put this all in a diagram, but at this point I have
> two questions:
>
> A. Does anyone know anymore?
> B. Does anyone care, or should I stop posting?
>
> Gordon, KA2NLM
>

No virus found in this outgoing message.
Checked by AVG.
Version: 7.5.552 / Virus Database: 270.10.19/1939 - Release Date: 2/7/2009
1:39 PM

Yahoo! Groups Links

1251. New file uploaded to Racal6790GM

Yahoo group: Racal6790GM
Date: 2009-02-09 15:31:48 UTC
From: Racal6790GM@yahoogroups.com
Topic: 168 Message: 1251

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the Racal6790GM
group.

File : /Dist Diagram.xls
Uploaded by : gldinnc <GLDuff@...>
Description : Block Diagram of Racal 6790/GM R-2174(B

You can access this file at the URL:
http://groups.yahoo.com/group/Racal6790GM/files/Dist%20Diagram.xls

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

gldinnc <GLDuff@...>

1252. Racal 6790/GM R-2174(B

Yahoo group: Racal6790GM
Date: 2009-02-09 15:33:14 UTC
From: gldinnc
Topic: 1252 Message: 1252

I have added a Word Docment and an Excel file with information on my Racal 6790/GM R-2174(B). Other units may differ, of course.

Gordon, KA2NLM

1253. Re: [Racal6790GM] New file uploaded to Racal6790GM

Yahoo group: Racal6790GM
Date: 2009-02-10 16:07:27 UTC
From: oscar873@aol.com
Topic: 168 Message: 1253

Can u send me a copy of this file?
Thanks
Al

-----Original Message-----
From: Racal6790GM@yahoogroups.com
To: Racal6790GM@yahoogroups.com
Sent: Mon, 9 Feb 2009 7:31 am
Subject: [Racal6790GM] New file uploaded to Racal6790GM

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the Racal6790GM
group.

File : /Dist Diagram.xls
Uploaded by : gldinnc <GLDuff@...>
Description : Block Diagram of Racal 6790/GM R-2174(B

You can access this file at the URL:
http://groups.yahoo.com/group/Racal6790GM/files/Dist%20Diagram.xls

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

gldinnc <GLDuff@...>

1254. Re: [Racal6790GM] Racal 6790/GM R-2174(B

Yahoo group: Racal6790GM
Date: 2009-02-10 16:08:47 UTC
From: oscar873@aol.com
Topic: 1252 Message: 1254

Can you send me a copy of this file?
Al

-----Original Message-----
From: gldinnc <GLDuff@...>
To: Racal6790GM@yahoogroups.com
Sent: Mon, 9 Feb 2009 7:33 am
Subject: [Racal6790GM] Racal 6790/GM R-2174(B

I have added a Word Docment and an Excel file with information on my
Racal 6790/GM R-2174(B). Other units may differ, of course.

Gordon, KA2NLM

1255. RE: [Racal6790GM] LED lighting replacement.

Yahoo group: Racal6790GM
Date: 2009-02-17 05:47:39 UTC
From: Ed Tanton
Topic: 934 Message: 1255

Hi Gary,

I just-finally-sent $81.00 via PayPal for the LED Board Kit incl. shipping.
Thanks!!! Address is below:

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: http://www.n4xy.com

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP K2 (Field Tester) #00057
QRP-L #165

Wag more - Bark Less

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
Behalf Of gewingerd@...
Sent: Monday, February 02, 2009 12:25 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] LED lighting replacement.

Ed,

The price on the kit and the complete board have gone up due to price of
parts.
LED Board KIT $75.00 Each plus shipping
LED Board for the Front Panel Complete $100.00 Each plus shipping

Shipping to the USA would be $6.00 more. My paypal is gewingerd@...
or my address is:

GARY E. WINGERD
9107 JORDAN RD.
FAIRPLAY, MD 21733

Thanks,
Gary

Yahoo! Groups Links

1256. Problems ...

Yahoo group: Racal6790GM
Date: 2009-02-17 09:03:30 UTC
From: Simon Guettier
Topic: 1256 Message: 1256

Hello group,

Would appreciate any help with a badly behaving 6790GM.

About 3 weeks ago the receiver - unprompted - the receiver appeared to launch itself unprompted into the BITE test while in operation. I noticed shortly afterwards that it had re-designated the 9.0 Khz filter as '8.9' Khz, but apart from that all worked fine.

However, with the passing of weeks the 'unprompted' BITE tests became more frequent, usually on power up.

Now, the machine will only launch into the BITE test on powerup - I say this, but I suspect it's not a true test, as the display ends up with '0000' at the end and doesn't give an error code or any sensible information. The fault light does not light. If I switch the unit back on shortly after this 'rogue test' it will still display the '0000' but after a while left off it goes back to running the test again on power up.

I suspect a duff battery may be the at least part of the problem because the unit definitely degenerated over time rather than instantly went wrong.

I'm not terribly 'techie' - although could change a board and successfully changed a failing LCD frequency display a short while ago.

Any help would be much appreciated.

Thanks in advance,

Simon

Aylesbury,

UK

1257. Re: [Racal6790GM] Problems ...

Yahoo group: Racal6790GM
Date: 2009-02-17 10:12:24 UTC
From: gewingerd@netzero.com
Topic: 1256 Message: 1257

Simon,

You need to check the battery on the A6A2 card and see if it has leaked onto the card, if it has that is your problem. You may also check all of the power supply outputs and see if all of them are correct.
I can repair the card if it is defective.

Thanks,
Gary E. Wingerd
RACAL Retired

1258. 6790/GM BITE code 04 ?

Yahoo group: Racal6790GM
Date: 2009-02-19 22:50:58 UTC
From: Dan Rae
Topic: 1258 Message: 1258

Does anyone know what the above code actually means in practise? I have two GMs here that both work fine, as far as I can tell, but fail BITE on 04.

Not that I think BITE is a lot of use generally, but this must mean something.

The manual blurb:
"Third Local Oscillator synthesiser not locked after 100 millisecond delay from 500 kHz step change" does not make a lot of sense to me. "Third" LO? Presumably they mean the BFO by that, but then what on earth has that to do with a 500 kHz step, given the limited range of the BFO?

Also the A8 cards concerned do not produce any BITE failures in another, third, receiver, which leads me to think there may be something wrong with the front panel board in both of the receivers that report 04.

Puzzled in Santa Monica,

Dan
ac6ao / g3ncr

1259. Strange IF fault.

Yahoo group: Racal6790GM
Date: 2009-02-21 14:44:45 UTC
From: davesc50
Topic: 1259 Message: 1259

Hi All,

Thanks to the help of the group, I now have my 6790/GM fully working appart from one rather strange fault that I can make head nor tail of. The fault lies somewhere in the IF output buffer amplifier circuit consisting of Q7,8 & 9. Basically as soon as I connect this circuit to the rest of the IF strip, the receiver gain takes a masive nose dive, with all but the strongest AM stations dissapearing. If I run BITE with this circuit connected I also get an error 15 as the receiver can not identify the filters due to lack of gain.
I have removed and tested all three transistors, they all measure fine. I have checked the values of all the passives in the circuit, they all seem to be within tolerence. I have also replaced the usual suspect, Tant. C58, without any success.
The output buffer can be simply isolated by removing one end of R60 and I am not planning on connecting anything to the IF output socket on the rear panel I would just like to get the whole receiver working as it should.
Just wondering if anyone out there has seen this fault before as I am running out of ides, and components to replace.

Cheers,
Dave.S.

1260. Re: [Racal6790GM] Strange IF fault.

Yahoo group: Racal6790GM
Date: 2009-02-21 15:42:16 UTC
From: Dan Rae
Topic: 1259 Message: 1260

davesc50 wrote:
> The fault lies somewhere in the IF output buffer amplifier circuit
> consisting of Q7,8 & 9. Basically as soon as I connect this circuit to
> the rest of the IF strip, the receiver gain takes a masive nose dive,
>

Dave, about the only thing that could cause the symptoms you describe would be a faulty Q7, the emitter follower on the input of the buffer amplifier, other than a short circuit to ground at the base of Q7. The output amplifier is connected to the rest of the circuit at a high impedance point, and something is causing the normally high Z input of Q7 to be a low impedance, which gives the gain reduction you see.

Dan

ac6ao / g3ncr

1261. Re: Strange IF fault.

Yahoo group: Racal6790GM
Date: 2009-02-21 17:35:46 UTC
From: davesc50
Topic: 1259 Message: 1261

Hi Dan,

You are of course right as usual :-)
I have replaced Q7 and the receiver is now functioning perfectly, now with an IF output.
The wierd thing is thar the transistor tests fine on both my multimeters and my transistor tester. It must be breaking down under load conditions in some way. Another one to add to the potential list of faults anyway.

Thanks again,
Dave.S.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> davesc50 wrote:
> > The fault lies somewhere in the IF output buffer amplifier circuit
> > consisting of Q7,8 & 9. Basically as soon as I connect this circuit to
> > the rest of the IF strip, the receiver gain takes a masive nose dive,
> >
>
> Dave, about the only thing that could cause the symptoms you describe
> would be a faulty Q7, the emitter follower on the input of the buffer
> amplifier, other than a short circuit to ground at the base of Q7.
The
> output amplifier is connected to the rest of the circuit at a high
> impedance point, and something is causing the normally high Z input of
> Q7 to be a low impedance, which gives the gain reduction you see.
>
> Dan
>
> ac6ao / g3ncr
>

1262. Re: [Racal6790GM] 6790/GM BITE code 04 ?

Yahoo group: Racal6790GM
Date: 2009-02-21 23:28:47 UTC
From: Dan Rae
Topic: 1258 Message: 1262

Dan Rae wrote:
> Does anyone know what the above code actually means in practise? I have
> two GMs here that both work fine, as far as I can tell, but fail BITE on 04.
>
> Not that I think BITE is a lot of use generally, but this must mean
> something.
>
> The manual blurb:
> "Third Local Oscillator synthesiser not locked after 100 millisecond
> delay from 500 kHz step change" does not make a lot of sense to me.
> "Third" LO? Presumably they mean the BFO by that, but then what on
> earth has that to do with a 500 kHz step, given the limited range of the
> BFO?
>
>
Answering my own query, for what it is worth:

For some reason the BFO, if adjusted to the Racal recommended setting of 8.0 Volts at the center frequency, will take a little longer to lock up than it does if adjusted to 6.0 Volts. This is enough to make the thing fail BITE 04. So the manual must therefore refer indeed to the BFO as being the Third Local Oscillator. I say 'Racal recommended', since the identical circuit in the RA1792 is quoted in the manual for that for Test Point 8 to be set for 8.0 Volts at BFO center, and there is as usual no adjustment info at all in the /GM manuals.

So set the BFO at zero and set the core of the inductor L4 for 6.0 Volts at TP8. The range of variation there for the whole range of the BFO is only a Volt or two each way so there is plenty of leeway. This seems to allow the BFO to react to a frequency step fast enough to pass the BITE 04 test reliably.

The 500 kHz step referred to is that for the first LO; this test steps both that and the BFO.

Dan
ac6ao / g3ncr

1263. Looking for top and bottom plate

Yahoo group: Racal6790GM
Date: 2009-02-22 19:22:57 UTC
From: kenwood1988
Topic: 1263 Message: 1263

Hi to all, has anyone the top and bottom plate of the 6790 - the ones at mine are missing and I finally want to bring it into the original condition.... maybe someone has some as spareparts or so...

Thanks a lot already,

73, Jens

1264. R: [Racal6790GM] 6790/GM BITE code 04 ?

Yahoo group: Racal6790GM
Date: 2009-02-25 19:37:54 UTC
From: iz6egk
Topic: 1258 Message: 1264

Dan,

I had the same problem.

Checked and re-checked the A8 board, then swapped with a new one confirmed working but . nothing.

Then I discovered that the problem was on the A9 board.

Please take a look at the Figure 7-10 (Synthesizer, A8 (Sheet 3 of 3)).

At the bottom of the page you should read:

I2 P/O J5

BFO SYNTH

ENABLE FROM A9

Now jump to Figure 7-11 (Receiver control, A9 (Sheet 2 of 3)).

The pin 12 (BFO ENABLE) of J7 connector from A8 board is connected to U61 pin 13 via the 2N3906.

The problem could be related to U61.

I've seen a number of these radios with a new U61 installed.

I hope this can help.

Best regards, 73

Pierluigi

Da: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] Per conto di Dan Rae
Inviato: domenica 22 febbraio 2009 0.29
A: Racal6790GM@yahoogroups.com
Oggetto: Re: [Racal6790GM] 6790/GM BITE code 04 ?

Dan Rae wrote:
> Does anyone know what the above code actually means in practise? I have
> two GMs here that both work fine, as far as I can tell, but fail BITE on 04.
>
> Not that I think BITE is a lot of use generally, but this must mean
> something.

>
> The manual blurb:
> "Third Local Oscillator synthesiser not locked after 100 millisecond
> delay from 500 kHz step change" does not make a lot of sense to me.
> "Third" LO? Presumably they mean the BFO by that, but then what on
> earth has that to do with a 500 kHz step, given the limited range of the
> BFO?
>
>
Answering my own query, for what it is worth:

For some reason the BFO, if adjusted to the Racal recommended setting of 8.0 Volts at the center frequency, will take a little longer to lock up than it does if adjusted to 6.0 Volts. This is enough to make the thing fail BITE 04. So the manual must therefore refer indeed to the BFO as being the Third Local Oscillator. I say 'Racal recommended', since the identical circuit in the RA1792 is quoted in the manual for that for Test Point 8 to be set for 8.0 Volts at BFO center, and there is as usual no adjustment info at all in the /GM manuals.

So set the BFO at zero and set the core of the inductor L4 for 6.0 Volts at TP8. The range of variation there for the whole range of the BFO is only a Volt or two each way so there is plenty of leeway. This seems to allow the BFO to react to a frequency step fast enough to pass the BITE 04 test reliably.

The 500 kHz step referred to is that for the first LO; this test steps both that and the BFO.

Dan
ac6ao / g3ncr

1265. Re: R: [Racal6790GM] 6790/GM BITE code 04 ?

Yahoo group: Racal6790GM
Date: 2009-02-25 19:52:54 UTC
From: Dan Rae
Topic: 1258 Message: 1265

Pierluigi,

Thanks for the note, but in my case the radios were working fine and
BITE wasn't. Setting the BFO alignment for the voltage I mentioned
cleared the "problem" up in both of them. It seems the requirements for
the 1792 and 6790/GM are a bit different, even though they have the same
circuit in those areas.
73
Dan

> Dan,
>
> I had the same problem.
>
> Checked and re-checked the A8 board, then swapped with a new one
> confirmed working but ? nothing.
>
> Then I discovered that the problem was on the A9 board.
>
> Please take a look at the Figure 7-10 (Synthesizer, A8 (Sheet 3 of 3)).
>
> At the bottom of the page you should read:
>
> I2 P/O J5
>
> BFO SYNTH
>
> ENABLE FROM A9
>
> Now jump to Figure 7-11 (Receiver control, A9 (Sheet 2 of 3)).
>
> The pin 12 (BFO ENABLE) of J7 connector from A8 board is connected to
> U61 pin 13 via the 2N3906.
>
> The problem could be related to U61.
>
> I?ve seen a number of these radios with a new U61 installed.
>
> I hope this can help.
>
> Best regards, 73
>
> Pierluigi
>
> ---

>
> *Da:* Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
> *Per conto di *Dan Rae
> *Inviato:* domenica 22 febbraio 2009 0.29
> *A:* Racal6790GM@yahoogroups.com
> *Oggetto:* Re: [Racal6790GM] 6790/GM BITE code 04 ?
>
> Dan Rae wrote:
> > Does anyone know what the above code actually means in practise? I have
> > two GMs here that both work fine, as far as I can tell, but fail BITE
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> > earth has that to do with a 500 kHz step, given the limited range of the
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> >
> Answering my own query, for what it is worth:
>
> For some reason the BFO, if adjusted to the Racal recommended setting of
> 8.0 Volts at the center frequency, will take a little longer to lock up
> than it does if adjusted to 6.0 Volts. This is enough to make the thing
> fail BITE 04. So the manual must therefore refer indeed to the BFO as
> being the Third Local Oscillator. I say 'Racal recommended', since the
> identical circuit in the RA1792 is quoted in the manual for that for
> Test Point 8 to be set for 8.0 Volts at BFO center, and there is as
> usual no adjustment info at all in the /GM manuals.
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> So set the BFO at zero and set the core of the inductor L4 for 6.0 Volts
> at TP8. The range of variation there for the whole range of the BFO is
> only a Volt or two each way so there is plenty of leeway. This seems to
> allow the BFO to react to a frequency step fast enough to pass the BITE
> 04 test reliably.
>
> The 500 kHz step referred to is that for the first LO; this test steps
> both that and the BFO.
>
> Dan
> ac6ao / g3ncr
>
>
>
>

1266. 6793A-2

Yahoo group: Racal6790GM
Date: 2009-03-08 21:16:36 UTC
From: Tom B
Topic: 1266 Message: 1266

Hello All,

I have a 6793A-2 that has a board stacked on top of what looks like the
ISB board. The board has a 2 kHz BW filter on it.
Could somebody tell me what this option is for?

Tom Bryan

1267. Two 6793 parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-20 11:46:21 UTC
From: billhouston16
Topic: 1267 Message: 1267

I have two 6793 receivers that have various problems and am going to sell for parts. Can someone give me a idea of what they are worth before I take them to the hamfest tomorrow? Thanks.

1268. Re: [Racal6790GM] Two 6793 parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-20 12:26:45 UTC
From: gewingerd@netzero.com
Topic: 1267 Message: 1268

If the 2 receivers are complete with filters and covers they should bring between $600.00 to $800.00 each.

Thanks,
Gary

1269. Re: [Racal6790GM] Two 6793 parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-20 12:51:49 UTC
From: Tom B
Topic: 1267 Message: 1269

Can you describe the problems?

> I have two 6793 receivers that have various problems and am going to
> sell for parts. Can someone give me a idea of what they are worth
> before I take them to the hamfest tomorrow? Thanks.

1270. Re: [Racal6790GM] Two 6793 parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-20 14:35:38 UTC
From: mparkinson1
Topic: 1267 Message: 1270

If you take them to a ham fest you won't get very much maybe 300.00 if your lucky.
You might get more one Ebay you will have a better chance at that for sure.
I am interested in your receivers for sure.
Matt Parkinson Military Equipment & R 390A Depot Center

1271. RE: [Racal6790GM] Two 6793 parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-20 15:02:41 UTC
From: Carcia, Francis A HS
Topic: 1267 Message: 1271

Most Hams do not appreciate the value of a Premium Receiver and even less of them have any idea how to repair it.
You will get your most bang for the buck if you give them to Gary, fix them and drop them on ebay.
The only thing that will happen is there will be a constant flow of knob twisters. frank

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of mparkinson1
Sent: Friday, March 20, 2009 10:36 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Two 6793 parts receivers

If you take them to a ham fest you won't get very much maybe 300.00 if your lucky.
You might get more one Ebay you will have a better chance at that for sure.
I am interested in your receivers for sure.
Matt Parkinson Military Equipment & R 390A Depot Center

1272. RE: [Racal6790GM] Two 6793 parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-20 17:35:16 UTC
From: Bob Betts
Topic: 1267 Message: 1272

I agree. I'm a ham, SWL, and incurable tinkerer. Most hams are very dedicated to their hobby and associated equipment, whereas SWLing, although a sister hobby, has its own specialties and requirements. There may be a lot of crossover guys, but I bet the overall percentage is small.
Kind of related topic: I recently got a hold of two W-J 8718A basket cases -- very bad condition physically and electrically -- I mean really, really bad. I spent a lot of time cleaning, straightening sheet metal, repairing boards, restoring Schadow switches, and rebuilding an encoder. I now have one excellent radio and a bunch of scrap parts for future repairs.
I hate like hell to part out a radio. I'd rather see the linage perpetuated if at all possible. Of course, that's just my opinion.
Anyhow, if you want a peek at my project, the link is below.
Good signals to all,
Bob, N1KPR
http://www.bobsamerica.com/receiver-reviews.html

--- On Fri, 3/20/09, Carcia, Francis A HS <francis.carcia@...> wrote:

From: Carcia, Francis A HS <francis.carcia@hs.utc.com>
Subject: RE: [Racal6790GM] Two 6793 parts receivers
To: Racal6790GM@yahoogroups.com
Date: Friday, March 20, 2009, 11:02 AM

Most Hams do not appreciate the value of a Premium Receiver and even less of them have any idea how to repair it.
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1273. RE: [Racal6790GM] Two 6793 parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-20 18:04:42 UTC
From: Carcia, Francis A HS
Topic: 1267 Message: 1273

Yup, the 6793 was the top of the 67XX heap so very worth saving.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Bob Betts
Sent: Friday, March 20, 2009 1:35 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] Two 6793 parts receivers

I agree. I'm a ham, SWL, and incurable tinkerer. Most hams are very
dedicated to their hobby and associated equipment, whereas SWLing,
although a sister hobby, has its own specialties and requirements. There
may be a lot of crossover guys, but I bet the overall percentage is
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Kind of related topic: I recently got a hold of two W-J 8718A basket
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future repairs.
I hate like hell to part out a radio. I'd rather see the linage
perpetuated if at all possible. Of course, that's just my opinion.
Anyhow, if you want a peek at my project, the link is below.
Good signals to all,
Bob, N1KPR
http://www.bobsamerica.com/receiver-reviews.html
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--- On Fri, 3/20/09, Carcia, Francis A HS <francis.carcia@...>
wrote:

From: Carcia, Francis A HS <francis.carcia@....com>
Subject: RE: [Racal6790GM] Two 6793 parts receivers
To: Racal6790GM@yahoogroups.com
Date: Friday, March 20, 2009, 11:02 AM

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Gary, fix them and drop them on ebay.
The only thing that will happen is there will be a constant flow
of knob twisters. frank

<http://groups.yahoo.com/;_ylc=X3oDMTJkbnB0OGJwBF9TAzk3NDc2NTkwBGdycElkAzg5NzE0MTMEZ3Jwc3BJZAMxNzA4Mzk2Mzc5BHNlYwNmdHIEc2xrA2dmcARzdGltZQMxMjM3NTYxOTk5>

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Yahoo! Groups
Auto Enthusiast Zone
<http://us.ard.yahoo.com/SIG=14hilbimc/M=493064.12717544.13455789.8674578/D=groups/S=1708396379:NC/Y=YAHOO/EXP=1237569199/L=/B=WdQAOkPDhFc-/J=1237561999508294/K=UIgqyShDr2wHjIMPc1iXSg/A=5658254/R=0/SIG=11ptgj47g/*http://advision.webevents.yahoo.com/autoenthusiastzone/>
Auto Enthusiast Zone
Discover auto groups
Yahoo! Groups
Everyday Wellness Zone
<http://us.ard.yahoo.com/SIG=14h5pns0a/M=493064.12662708.12980600.8674578/D=groups/S=1708396379:NC/Y=YAHOO/EXP=1237569199/L=/B=WtQAOkPDhFc-/J=1237561999508294/K=UIgqyShDr2wHjIMPc1iXSg/A=5349275/R=0/SIG=11nhsqmjq/*http://advision.webevents.yahoo.com/EverydayWellness/>
Check out featured
healthy living groups.
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<http://us.ard.yahoo.com/SIG=14h8br8aa/M=493064.12016306.12445698.8674578/D=groups/S=1708396379:NC/Y=YAHOO/EXP=1237569199/L=/B=W9QAOkPDhFc-/J=1237561999508294/K=UIgqyShDr2wHjIMPc1iXSg/A=5579904/R=0/SIG=110vban8o/*http://www.handsonnetwork.org/>
Volunteering has
never been so easy
.

<http://geo.yahoo.com/serv?s=97359714/grpId=8971413/grpspId=1708396379/msgId=1271/stime=1237561999/nc1=5658254/nc2=5349275/nc3=5579904>

1274. RE: [Racal6790GM] Two 6793 parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-20 18:52:00 UTC
From: gewingerd@netzero.com
Topic: 1267 Message: 1274

They would sell on EBAY for between $1700 and $2000 each after repair and refurbishment.

My contact info is:
Gary E. Wingerd
9107 Jordan RD.
Fairplay, MD 21733
1-301-582-2424

Thanks,
Gary

1275. two parts receivers.

Yahoo group: Racal6790GM
Date: 2009-03-20 23:35:15 UTC
From: Bill Houston
Topic: 1275 Message: 1275

I have not tried to find out what problems these have. They are basket cases. They are mostly
all there. There are some filters, but they are not the standard filters. By that I mean they are
odd bw. There is one set of filters that are 2.75khz Three filters LSB USB and middle(am). These were in a box from where they were removed for the odd (1mhz) filters. Most of the boards are not connected together, so there is no telling what is wrong with them. I could send
pictures or link to pictures.

1276. parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-21 00:00:58 UTC
From: Bill Houston
Topic: 1276 Message: 1276

Here are links to pictures of the receivers.

http://ftp.pwp.att.net/w/d/wd4luq/racal1.jpg
http://ftp.pwp.att.net/w/d/wd4luq/racal2.jpg
http://ftp.pwp.att.net/w/d/wd4luq/racal3.jpg

I don't know enough about these to know what is missing with out doing a lot of reading of the manual Which is the other thing I have. A full paper original service manual with notes. I mostly work on newer stuff (surface mount etc.), and have just decide I would rather someone that has the time and knowledge have these.

1277. Re: [Racal6790GM] parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-21 00:32:59 UTC
From: gewingerd@netzero.com
Topic: 1276 Message: 1277

Bill,

All 3 of the receivers can be repaired, I carry most of the parts and boards in stock. Looks like the A2 cards have been swapped between the RA6790/GM and the RA6793.

Thanks,
Gary

1278. Re: [Racal6790GM] parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-21 00:39:26 UTC
From: gewingerd@netzero.com
Topic: 1276 Message: 1278

Bill,

Looking at all the pictures I see both the RA6793A receivers are missing the A6A2 card 4100030 with the software to run the receiver. I think I have one in the shop that works.

Thanks,
Gary

1279. Re: [Racal6790GM] parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-21 01:15:13 UTC
From: mparkinson1
Topic: 1276 Message: 1279

Bill contact me at mparkinson1@...
thanks
Matt Parkinson Military Equipment & R 390A Depot Center

1280. Re: [Racal6790GM] parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-21 02:10:58 UTC
From: Tom B
Topic: 1276 Message: 1280

What is the little box in the 6790/GM where the ISB adapter would go?

Tom

gewingerd@... wrote:
> Bill,
>
> Looking at all the pictures I see both the RA6793A receivers are missing the A6A2 card 4100030 with the software to run the receiver. I think I have one in the shop that works.
>
> Thanks,
> Gary
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>

1281. Re: [Racal6790GM] parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-21 12:29:41 UTC
From: gewingerd@netzero.com
Topic: 1276 Message: 1281

Tom,

Looks like an A25 or A26 converter.

thanks,
Gary

1282. Re: parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-21 14:47:15 UTC
From: vk5abc
Topic: 1276 Message: 1282

I take it that the receiver in racal 1 does not have a A4 board?

Lee

--- In Racal6790GM@yahoogroups.com, Bill Houston <billhouston16@...> wrote:
>
> Here are links to pictures of the receivers.
>
> http://ftp.pwp.att.net/w/d/wd4luq/racal1.jpg
> http://ftp.pwp.att.net/w/d/wd4luq/racal2.jpg
> http://ftp.pwp.att.net/w/d/wd4luq/racal3.jpg
>
> I don't know enough about these to know what is missing with out doing a lot
> of reading of the manual Which is the other thing I have. A full paper original
> service manual with notes. I mostly work on newer stuff (surface mount etc.),
> and have just decide I would rather someone that has the time and knowledge
> have these.
>

1283. Re: [Racal6790GM] Two 6793 parts receivers

Yahoo group: Racal6790GM
Date: 2009-03-23 19:25:01 UTC
From: oscar873@aol.com
Topic: 1267 Message: 1283

Bill
Did u sell all of
the racals
Al

-----Original Message-----
From: billhouston16 <billhouston16@...>
To: Racal6790GM@yahoogroups.com
Sent: Fri, 20 Mar 2009 4:46 am
Subject: [Racal6790GM] Two 6793 parts receivers

I have two 6793 receivers that have various problems and am going to
sell for parts. Can someone give me a idea of what they are worth
before I take them to the hamfest tomorrow? Thanks.

1284. RA1792 display interface.

Yahoo group: Racal6790GM
Date: 2009-03-25 19:51:02 UTC
From: davesc50
Topic: 1284 Message: 1284

Hi all,
As some of the group members are aware, I have been working on a PIC microcontroller based interface to allow the use of modern / off the shelf displays to be used with the Racal RA1792 receiver.
I have just created a new folder in the files section with the first working build of software and a pre compiled HEX file for anyone who is interested.
I still have to complete the schematics but a brief description of how it is all connected up is included in the source code. Schematics will be uploaded them when i've finished them.
I also still have to refine the software over the next few weeks and will release further versions as time goes by.

Apologies in advance as I know this is a RA6790/GM group and not an RA1792 group, but as it's the nearest place there is to one on the net I think it's the best place to start.

I am intending to produce a small number of kit's eventually and possibly supply pre programmed PIC's. If anyone wishes to discuss this please contact me off group rather than starting a big public debate.
Thanks all and enjoy the software.
Dave.S.

1285. Re: RA1792 display interface.

Yahoo group: Racal6790GM
Date: 2009-03-26 00:46:31 UTC
From: maxhdrm2
Topic: 1284 Message: 1285

No apology is nessesary, You are sharing alot of your own hard work! Nice Job! Max

--- In Racal6790GM@yahoogroups.com, "davesc50" <davesc50@...> wrote:
>
> Hi all,
> As some of the group members are aware, I have been working on a PIC microcontroller based interface to allow the use of modern / off the shelf displays to be used with the Racal RA1792 receiver.
> I have just created a new folder in the files section with the first working build of software and a pre compiled HEX file for anyone who is interested.
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>
> I am intending to produce a small number of kit's eventually and possibly supply pre programmed PIC's. If anyone wishes to discuss this please contact me off group rather than starting a big public debate.
> Thanks all and enjoy the software.
> Dave.S.
>

1286. RA6830JD-504

Yahoo group: Racal6790GM
Date: 2009-04-18 00:40:27 UTC
From: Tom B
Topic: 1286 Message: 1286

Hello All,

I have a Racal RA6830JD-504 receiver that I am planning to sell but I am not sure how to describe it. It is not a conventional receiver. The output is 455kHz and there is no demodulator. It uses the same filters as the 6790/GM and has bandwidths of 1k, 3k, and 300Hz. It was used a part of a DF system made by TCI. If someone could help with a simple description that makes sense I would appreciate it.

Tom Bryan

1287. Re: [Racal6790GM] RA6830JD-504

Yahoo group: Racal6790GM
Date: 2009-04-18 01:17:58 UTC
From: FRANCIS CARCIA
Topic: 1286 Message: 1287

Tom,
I have converted a number of DF 6830s to usable receivers. It takes a software change new A6, A7,A9, A10, A11 and best to swap out the A13 but the DF is usable. Also need a new motherboard and front panel. Coax cables need to be moved around to support new modules. The DF would make a great front end for a softrock. You just remove the cable going into A10 and feed it into the softrock set up for 455 KHz. Gary Wingerd may be able to help you with parts if you want to turn it into a very nice RX.
Not worth a lot of money in the present configuration. Frank WA1GFZ

--- On Fri, 4/17/09, Tom B <tbryan@...> wrote:

From: Tom B <tbryan@nova.org>
Subject: [Racal6790GM] RA6830JD-504
To: Racal6790GM@yahoogroups.com
Date: Friday, April 17, 2009, 8:40 PM

Hello All,

I have a Racal RA6830JD-504 receiver that I am planning to sell but I am not sure how to describe it. It is not a conventional receiver. The output is 455kHz and there is no demodulator. It uses the same filters as the 6790/GM and has bandwidths of 1k, 3k, and 300Hz. It was used a part of a DF system made by TCI. If someone could help with a simple description that makes sense I would appreciate it.

Tom Bryan

1288. Re: [Racal6790GM] RA6830JD-504

Yahoo group: Racal6790GM
Date: 2009-04-18 02:23:09 UTC
From: Tom B
Topic: 1286 Message: 1288

Hi Frank,

Thanks. I have a 6830JD already so I don't need this one. It sounds
like you have to replace just about everything.
Would you describe this thing as a receiver or a tuner or what?

Tom

>
> Tom,
> I have converted a number of DF 6830s to usable receivers. It takes a
> software change new A6, A7,A9, A10, A11 and best to swap out the A13
> but the DF is usable. Also need a new motherboard and front panel.
> Coax cables need to be moved around to support new modules. The DF
> would make a great front end for a softrock. You just remove the cable
> going into A10 and feed it into the softrock set up for 455 KHz. Gary
> Wingerd may be able to help you with parts if you want to turn it into
> a very nice RX.
> Not worth a lot of money in the present configuration. Frank WA1GFZ
>
> ,_._,___

1289. FS: Racal RA6830JD-504

Yahoo group: Racal6790GM
Date: 2009-04-19 02:37:48 UTC
From: Tom B
Topic: 1289 Message: 1289

Hi All,

I have for sale a Racal RA6830JD-504 receiver. It is not a conventional receiver. I would describe it as a 500kHz to 30 MHz narrow band tuner/converter with 455kHz output, there is no demodulator. It uses the same filters as the 6790/GM and has bandwidths of 1k, 3k, and 300Hz. It was used as a part of a DF system made by TCI. It does require an external 40MHz 0 dBm 2nd LO signal to operate. This set was never in service and still has the factory seal and protective plastic film on the case. I do not have the power cord which uses a 3 pin MS connector. The price is $300 plus shipping. Pictures are available.

Tom Bryan
N3AJA

1290. For Sale: New 26-pin MIL RS232 Connector

Yahoo group: Racal6790GM
Date: 2009-04-24 04:52:41 UTC
From: Mike
Topic: 1290 Message: 1290

New 26-pin MIL RS232 connector used to connect a PC to the A6A1 card on the RA6790/GM. Surplus to my needs.

View at http://home.comcast.net/~bipi/pix/rs232.jpg

$35 + 5 shipping CONUS only.

Please contact me off of the list if interested.

Thank You

Mike, K7PI
Mercer Island, WA
exbpi@comcast.net

1291. RA/6790GM computer control

Yahoo group: Racal6790GM
Date: 2009-04-29 22:36:35 UTC
From: talkophonez
Topic: 1291 Message: 1291

When you use W6GER virtual receiver software is the ID 37 ? Gary will answer but does anyone else know?

Regards
Larry Strong

1292. Re: [Racal6790GM] RA/6790GM computer control

Yahoo group: Racal6790GM
Date: 2009-04-29 23:34:13 UTC
From: Michael St. Angelo
Topic: 1291 Message: 1292

Larry,

I use the W6GER software without any straps in the plug and the ID is 77.

Mike N2MS

----- Original Message -----
From: "talkophonez" <l.strong@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, April 29, 2009 6:36 PM
Subject: [Racal6790GM] RA/6790GM computer control

> When you use W6GER virtual receiver software is the ID 37 ? Gary will
> answer but does anyone else know?
>
> Regards
> Larry Strong
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1293. Re: [Racal6790GM] RA/6790GM computer control

Yahoo group: Racal6790GM
Date: 2009-04-29 23:33:46 UTC
From: Dan Rae
Topic: 1291 Message: 1293

talkophonez wrote:
> When you use W6GER virtual receiver software is the ID 37 ? Gary will answer but does anyone else know?
>
> Regards
> Larry Strong
>
>
>
It depends on how the cable / plug is wired, the receiver number is
defined by grounding various pins in the connector as per the manual.
dr

1294. Re: [Racal6790GM] RA/6790GM computer control

Yahoo group: Racal6790GM
Date: 2009-04-29 23:08:54 UTC
From: Leigh Sedgwick
Topic: 1291 Message: 1294

That is the ID I use...here are my settings

"37","Receiver 1 Comm ID"
" ","Receiver 2 Comm ID"
" ","Receiver 3 Comm ID"
"9340","Receiver Serial"
4,"Comm Port"
"19200,N,8,1","Port Settings"

de Mike
K7PI

----- Original Message -----
From: "talkophonez" <l.strong@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Wednesday, April 29, 2009 3:36 PM
Subject: [Racal6790GM] RA/6790GM computer control

> When you use W6GER virtual receiver software is the ID 37 ? Gary will
> answer but does anyone else know?
>
> Regards
> Larry Strong
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

1295. RA6790 and CW Skimmer; Mods

Yahoo group: Racal6790GM
Date: 2009-05-08 21:10:07 UTC
From: H Lawrence Serra
Topic: 1295 Message: 1295
Attachments: 1 described; binary payloads are missing from this source WARC

I don't know if any of you saw this article from the MAR-APR '09 issue of the National Contest Journal, but it contains some interesting mods to the RA6790 to protect the front end from fast QSK transmissions (thanks, Gary Wingerd), and to squelch the AGC during transmit by using a voltage follower to trick the diversity receive capability features of the RA6790 (thanks, Graham G0NBD).

73, Larry N6NC

1296. Racal RA-1792 1st oscillator repair

Yahoo group: Racal6790GM
Date: 2009-05-16 14:23:18 UTC
From: Antonio Iovane
Topic: 1296 Message: 1296

Hi all,
just a few weeks ago I happened to buy at a local dealer a batch of junk Racal stuff comprising:
-one RA-1792 with missing covers, displays, knobs, front panel, 2nd mixer board, and processor board damaged by battery leakage;
-one RA-1795 (VHF-UHF Rx) complete and in good conditions, where the only problem appears to be the processor board;
-two MA-1723 drive units, one complete and one with missing oven oscillator.
Paid 250 euro for all.

I started dealing with the 1792, and found it could be repaired. I've installed on it the displays from the incomplete MA-1723, and the left-hand display seems to be compatible, while the right-hand one is too smealed to say it works well or not.
I've repaired the proc board replacing two corroded IC sockets, removing the battery, cleaning etc and the board now works.
I' ve also found that the 2nd MF, filters, BFO, audio, 1st mixer, input pre-amplifier, etc, do work. Meantime I bought on ebay the 2nd mixer board that I'm waiting for.

The only residual problem is that the 1st local oscillator is stable when a frequency higher than about 13 MHz is tuned, loses lock after warm-up for frequencies between about 6 and 13 MHZ, doesn't lock at all for lower frequencies (check made with spectrum analyzer at the board output).

Any advices on troubleshotting from this group?

Thanks,
Antonio I8IOV

1297. Racal

Yahoo group: Racal6790GM
Date: 2009-05-16 15:00:42 UTC
From: cor70_99
Topic: 1297 Message: 1297

ciao antonio puoi cortesemente dirmi dove hai preso le racal ?

Grazie e ciao
corrado

1298. repair of nonfunctional gm6790

Yahoo group: Racal6790GM
Date: 2009-05-17 13:55:28 UTC
From: ox3tn
Topic: 1298 Message: 1298

On of our local club members got hold of some govm. phased-out receivers, I think 6 or 7 Watkins and Johnsoon, and 5 or 6 GM6790s.

I got one 6790GM functionally OK, but we stille have 3 6790 lying around in the club rooms, one with a label saying, "dead - to be used as spare parts", one with sensitivity problems and one "non functional - burned components..." I talked to the "supplier" and we agreed that I could have it home to se what could do about it....

Reading some of Gary's advises/hints, I did the following:

1) Pulled out the serial interface board, and re-installed the LK-1 link on the processor board.

2) On Board A8 - Second LO/BFO synth. card the C47, 6,8 uF/35v had left this world leaving black marks on the board. - I did unfortunately, not have this type on hand, so as a temporaty solution I have replaced it with a standard electrolytic 10 uF/55v.

3) Having the bord pulled out of the chassis - I powered up the 6790, and it aparently came to life - of course complaining about the missing board A8, but It also gave a peculiar error code meaning something about a symetrical filter in a bad place....?

4) Anyway - I put the "repaired" A8 board back i place, to see if there was still life to be found - and yes, and no.
It sometimes comes up with bite error, sometimes not - one of the first bite-errors I saw was "060L" meaning ?, sometimes it comes up without bite error. I was able to hear stations on frequencies between 5 Mhz and 15 Mhz, using only a 3 foot length of bare wire as an indoor antenna, so I believe there is some positive progress.

My next move will be to look into my working 6790 and se how the X-tal filers are seated, to be certain that whatever Bite-message comming up cannot be related to the x-tal filters themselves - I hope that I´m on the right track, but afraid that there still could be something wrong on the IF-board

best 73 de Mogens/OZ9TQ (ex. OX3TN)

PS: great the have the group's background information available, as support on "how to do....."

1299. Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-05-21 18:18:56 UTC
From: scm325
Topic: 1299 Message: 1299

Missed a good deal at Dayton Hamfest by seconds....12 RA 6790/GMs for $1800...made me want to cry....all had all modules, covers, and 4-5 filters... This was the last 12 od about 15....they were selling for $200 your choice.....)-:

SCM325

1300. Re: [Racal6790GM] Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-05-21 19:47:42 UTC
From: oscar873@aol.com
Topic: 1299 Message: 1300

YES, and I was suppose to get some of those too!

-----Original Message-----
From: scm325 <scm325@...>
To: Racal6790GM@yahoogroups.com
Sent: Thu, 21 May 2009 11:18 am
Subject: [Racal6790GM] Good deal at Dayton

Missed a good deal at Dayton Hamfest by seconds....12 RA 6790/GMs for $1800...made me want to cry....all had all modules, covers, and 4-5 filters... This was the last 12 od about 15....they were selling for $200 your choice.....)-:

SCM325

1301. Re: Racal RA-1792 1st oscillator repair

Yahoo group: Racal6790GM
Date: 2009-05-22 11:08:40 UTC
From: Antonio Iovane
Topic: 1296 Message: 1301

To keep a record here, the 1st oscillator problem was the VCO FET Q8 (2N3823 or BFW11). I've replaced it and the 1st L.O./synthesizer now works.
(By the way, in the meantime I received the 2nd mixer board from England, and the receiver now works.)

73,
Antonio I8IOV

--- In Racal6790GM@yahoogroups.com, "Antonio Iovane" <i8iov@...> wrote:
>
> Hi all,
> just a few weeks ago I happened to buy at a local dealer a batch of junk Racal stuff comprising:
> -one RA-1792 with missing covers, displays, knobs, front panel, 2nd mixer board, and processor board damaged by battery leakage;
> -one RA-1795 (VHF-UHF Rx) complete and in good conditions, where the only problem appears to be the processor board;
> -two MA-1723 drive units, one complete and one with missing oven oscillator.
> Paid 250 euro for all.
>
> I started dealing with the 1792, and found it could be repaired. I've installed on it the displays from the incomplete MA-1723, and the left-hand display seems to be compatible, while the right-hand one is too smealed to say it works well or not.
> I've repaired the proc board replacing two corroded IC sockets, removing the battery, cleaning etc and the board now works.
> I' ve also found that the 2nd MF, filters, BFO, audio, 1st mixer, input pre-amplifier, etc, do work. Meantime I bought on ebay the 2nd mixer board that I'm waiting for.
>
> The only residual problem is that the 1st local oscillator is stable when a frequency higher than about 13 MHz is tuned, loses lock after warm-up for frequencies between about 6 and 13 MHZ, doesn't lock at all for lower frequencies (check made with spectrum analyzer at the board output).
>
> Any advices on troubleshotting from this group?
>
> Thanks,
> Antonio I8IOV
>

1302. Racal 2309B

Yahoo group: Racal6790GM
Date: 2009-05-25 13:06:03 UTC
From: Jody
Topic: 1302 Message: 1302

Hello,
I was wondering if anyone on the group[had some info on this radio. I just purchased it on Ebay. Here is a link to the Ebay auction,'

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&rd=1&item=150346314975&ssPageName=STRK:MEWA:IT&ih=005

It appears it be in working order. If anyone has some info on the units or experience with the units I would to hear about it. I am interested in sensitivity figures most.

Thanks for any info in advance,

Jody

1303. Racal power supply help please.

Yahoo group: Racal6790GM
Date: 2009-05-28 01:11:34 UTC
From: Jody
Topic: 1303 Message: 1303

Just purchased this Racal radio from the UK. I was told by the previous owner that the unit was set to accept 240VAC for operation in the UK. In the link I have included there is a photo of the power supply inside the radio. It appears that the power supply has some kind of selector to allow supply voltage changes. Can anyone here shed some light on how this power supply is setup to work and how to change the supply voltage to work here in the USA.

Thanks,
Jody

http://www.auctiva.com/hostedimages/showimage.aspx?gid=935532&ppid=1122&image=267074353&images=267074568,267075627,267075725,267075536,267074650,267074732,267074828,267074900,267074977,267075056,267075161,267075327,267075442,267074476,267074353,267074256,267074156&formats=0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0&format=0

1304. Re: [Racal6790GM] Racal power supply help please.

Yahoo group: Racal6790GM
Date: 2009-05-28 02:22:33 UTC
From: gewingerd@netzero.com
Topic: 1303 Message: 1304

Jody,

Where the power cord goes into the unit is the power supply line voltage selector located behind the sliding clear plastic cover, it should be set to 240VAC, remove the card and flip it over to see 120VAC on the card; reinstall and you should be ready to go.

Thanks,
Gary

1305. Re: [Racal6790GM] Racal power supply help please.

Yahoo group: Racal6790GM
Date: 2009-05-28 02:37:10 UTC
From: jody mathews
Topic: 1303 Message: 1305

take a look at the photos here Gary,
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&rd=1&item=150346314975&ssPageName=STRK:MEWA:IT&ih=005

There is no selector on the back like the 6790's. It appears to me that there is a seltion panel on the inside of the radio on the power supply section where the supply voltage is selected. Take a look and see what you think...

Thanks

--- On Wed, 5/27/09, gewingerd@... <gewingerd@...> wrote:

From: gewingerd@... <gewingerd@...>
Subject: Re: [Racal6790GM] Racal power supply help please.
To: Racal6790GM@...m
Date: Wednesday, May 27, 2009, 10:22 PM

Jody,

Where the power cord goes into the unit is the power supply line voltage selector located behind the sliding clear plastic cover, it should be set to 240VAC, remove the card and flip it over to see 120VAC on the card; reinstall and you should be ready to go.

Thanks,
Gary

Yahoo! Groups Links

1306. Re: [Racal6790GM] Racal power supply help please.

Yahoo group: Racal6790GM
Date: 2009-05-28 04:28:19 UTC
From: casy_ch@tbwil.ch
Topic: 1303 Message: 1306

Hi Jody

US made receivers have what Gary was saying - the pcboard to beside the clear plastic part.

The RA-2309 being a UK made receiver the voltage setting is totally different.

Refer to the pic no 15.

On the transformer you have a bar with an arrow showing on 250VAC. That bar has got prongs underneath. Lift it off the voltage gridplate, turn it so that the arrow shows towards the 100V side and plug it the line which corresponds to your voltage. For US I would put it on 120 or 115VAC.

The arrow of the bar should then be showing towards the voltage you have choosen. Enjoy listening.

Jean-Claude, Switzerland

----- Original Message -----
From: jody mathews
To: Racal6790GM@yahoogroups.com
Sent: Thursday, May 28, 2009 4:37 AM
Subject: Re: [Racal6790GM] Racal power supply help please.

take a look at the photos here Gary,
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&rd=1&item=150346314975&ssPageName=STRK:MEWA:IT&ih=005

There is no selector on the back like the 6790's. It appears to me that there is a seltion panel on the inside of the radio on the power supply section where the supply voltage is selected. Take a look and see what you think...

Thanks

--- On Wed, 5/27/09, gewingerd@netzero.com <gewingerd@...> wrote:

From: gewingerd@netzero.com <gewingerd@...>
Subject: Re: [Racal6790GM] Racal power supply help please.
To: Racal6790GM@yahoogroups.com
Date: Wednesday, May 27, 2009, 10:22 PM

Jody,

Where the power cord goes into the unit is the power supply line voltage selector located behind the sliding clear plastic cover, it should be set to 240VAC, remove the card and flip it over to see 120VAC on the card; reinstall and you should be ready to go.

Thanks,
Gary

Yahoo! Groups Links

1307. Re: [Racal6790GM] Racal power supply help please.

Yahoo group: Racal6790GM
Date: 2009-05-28 13:13:28 UTC
From: Dan Rae
Topic: 1303 Message: 1307

Jody wrote:
> Just purchased this Racal radio from the UK. I was told by the previous owner that the unit was set to accept 240VAC for operation in the UK. In the link I have included there is a photo of the power supply inside the radio. It appears that the power supply has some kind of selector to allow supply voltage changes. Can anyone here shed some light on how this power supply is setup to work and how to change the supply voltage to work here in the USA.
>
> Thanks,
> Jody
>
>
>
You pull out the black thing with the arrow on it that is currently pointing at 240 V at put it back in pointing at the Voltage you want, presumably 120.

However you may also need to change the fuse rating, the manual will advise... As a general rule the current rating for 120 Volts will be double that for 240. In the RA6790/GM, the spare fuse inside the power supply will usually be for the other supply Voltage range.

Dan

ac6ao / g3ncr

1308. Racal RA-1795 EPROM question.

Yahoo group: Racal6790GM
Date: 2009-05-29 10:16:12 UTC
From: Antonio Iovane
Topic: 1308 Message: 1308

Hi all,

I have a Racal RA-1795 receiver, 20-1000 MHz all mode including LSB USB @ 3KHz bandwidth, with many options fitted, complete in all parts. A good RX, in very good conditions.
But it doesn't work. All voltages are OK according to the manual, but I can't start self-test.
I guess that the program EPROMs on the processor board are corrupted. In fact, one of these had lost the obscuring tape on the transparent window, and the receiver misses the top cover too.

So I would ask this list, does anybody own such a receiver? Is there any way to get the code for reprogramming the EPROMs? Any suggestion on how to ascertain thad the EPROMs are faulty?

Thanks,
Antonio I8IOV

1309. Re: [Racal6790GM] Racal RA-1795 EPROM question.

Yahoo group: Racal6790GM
Date: 2009-05-29 15:12:45 UTC
From: Dan Rae
Topic: 1308 Message: 1309

Antonio Iovane wrote:
>
> I have a Racal RA-1795 receiver, 20-1000 MHz all mode including LSB USB @ 3KHz bandwidth, with many options fitted, complete in all parts. A good RX, in very good conditions.
> But it doesn't work. All voltages are OK according to the manual, but I can't start self-test.
> I guess that the program EPROMs on the processor board are corrupted. In fact, one of these had lost the obscuring tape on the transparent window, and the receiver misses the top cover too.
>
Antonio,

I have one of these in my collection, and without any doubt it was the *most* difficult receiver to work on that I have ever had my hands on. So many of the boards are just not accessible to probe. And even when it is working the performance is not great. They seem to have sacrificed sensitivity in favour of strong signal handling.

However to answer your eprom question. I doubt that even with the lid off and no label that an eprom will have lost it's programming, but it is possible. Much more likely is that you have a problem with one of those awful ribbon cable connectors that lead to the front panel. I do have listings for the eproms somewhere. There are several versions though, mine has two 2764 eproms, but there are also versions with a single 27128.

One of the BITE tests, of course, is to check the ROM and RAM.

Signature analysis is fitted into the firmware, but there are no signatures published in the manual, nor was I ever able to find any... One wonders why they bothered?

The RAM needs to be very fast. It is accessed for the tuning routine and regular 5101s will not work, there are one or two brands that do work, but I'm uncertain now as to what they are. Also the EAROM fitted is liable to failure, this stores the dial settings on switch off, there is not the usual battery fitted (one positive thing maybe :^))

If you can tell me your firmware version, maybe some numbers on the eproms? I will see if I can find the files...

Dan

ac6ao / g3ncr

1310. Re: Racal RA-1795 EPROM question.

Yahoo group: Racal6790GM
Date: 2009-05-29 22:30:06 UTC
From: Antonio Iovane
Topic: 1308 Message: 1310

Dan,

thank you very much for your kind reply, the interesting tips and the good news that you could have the firmware files.

Today I left for a short vacation, and will be back home on mid next week. I will give you the firmware version (if any available) at that time. My 1795 has two 2764 EPROMs.

Actually I had also problems with the ribbon cable/connector from the processor board to the front panel. I got erratic displays moving that cable, and after unplugging/plugging the connector a few times I get now a fixed display showing the number 4080 on the rightmost positions. It is not an error code as per the manual. The display appears soon at power-on, but the audio noise is delayed a couple of seconds.

I would try refreshing the EPROM content, in order to get a more solid basis to work on (I will use two spare EPROMs).

I will let you know next week.

All the best,
Antonio I8IOV

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> Antonio Iovane wrote:
> >
> > I have a Racal RA-1795 receiver, 20-1000 MHz all mode including LSB USB @ 3KHz bandwidth, with many options fitted, complete in all parts. A good RX, in very good conditions.
> > But it doesn't work. All voltages are OK according to the manual, but I can't start self-test.
> > I guess that the program EPROMs on the processor board are corrupted. In fact, one of these had lost the obscuring tape on the transparent window, and the receiver misses the top cover too.
> >
> Antonio,
>
> I have one of these in my collection, and without any doubt it was the
> *most* difficult receiver to work on that I have ever had my hands on.
> So many of the boards are just not accessible to probe. And even when
> it is working the performance is not great. They seem to have
> sacrificed sensitivity in favour of strong signal handling.
>
> However to answer your eprom question. I doubt that even with the lid
> off and no label that an eprom will have lost it's programming, but it
> is possible. Much more likely is that you have a problem with one of
> those awful ribbon cable connectors that lead to the front panel. I do

> have listings for the eproms somewhere. There are several versions
> though, mine has two 2764 eproms, but there are also versions with a
> single 27128.
>
> One of the BITE tests, of course, is to check the ROM and RAM.
>
> Signature analysis is fitted into the firmware, but there are no
> signatures published in the manual, nor was I ever able to find any...
> One wonders why they bothered?
>
> The RAM needs to be very fast. It is accessed for the tuning routine and
> regular 5101s will not work, there are one or two brands that do work,
> but I'm uncertain now as to what they are. Also the EAROM fitted is
> liable to failure, this stores the dial settings on switch off, there is
> not the usual battery fitted (one positive thing maybe :^))
>
> If you can tell me your firmware version, maybe some numbers on the
> eproms? I will see if I can find the files...
>
> Dan
>
> ac6ao / g3ncr
>

1311. New RA6790GM Help

Yahoo group: Racal6790GM
Date: 2009-06-03 19:10:31 UTC
From: Charles Keiser
Topic: 1311 Message: 1311

I just received a RA-9690GM that I bought on ebay. (first mistake??) I turned on the unit and got a fault light. The first time I got the error message "0000". The next time I powered it on I got the message "0H090-0" the third time I got the message 0H080P0. I am a shortwave listener and not a tech expert. Any suggestions as to how to remedy this would be appreciated.

Thanks

Chuck

1312. Re: [Racal6790GM] New RA6790GM Help

Yahoo group: Racal6790GM
Date: 2009-06-03 20:07:24 UTC
From: casy_ch@tbwil.ch
Topic: 1311 Message: 1312

Hi Chuck

Oh! Dear, you too. I just received one from the USA this week and it is sometimes erratic to show a fault or just go. It also showed the fault 0H090-0. I have not yet looked into a service manual. I had no time yet to open the rig and check. I have a strong feeling that some parcel bumps or rugby ball launches might have somehow slighlty loosened something or a few things as the seller has assured me that it was working before packing and I know he let the rig work a week to make sure that everything was ok.

Eventhough you are a listener like me, open the bottom and top covers. May be you will see and find something which is slightly loose, a multiplug, a board or something like that.

Jean-Claude
Switzerland

----- Original Message -----
From: Charles Keiser
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, June 03, 2009 9:10 PM
Subject: [Racal6790GM] New RA6790GM Help

I just received a RA-9690GM that I bought on ebay. (first mistake??) I turned on the unit and got a fault light. The first time I got the error message "0000". The next time I powered it on I got the message "0H090-0" the third time I got the message 0H080P0. I am a shortwave listener and not a tech expert. Any suggestions as to how to remedy this would be appreciated.

Thanks

Chuck

1313. Re: [Racal6790GM] New RA6790GM Help

Yahoo group: Racal6790GM
Date: 2009-06-03 20:15:16 UTC
From: Dan Rae
Topic: 1311 Message: 1313

Charles Keiser wrote:
> I just received a RA-9690GM that I bought on ebay. (first mistake??) I turned on the unit and got a fault light. The first time I got the error message "0000". The next time I powered it on I got the message "0H090-0" the third time I got the message 0H080P0. I am a shortwave listener and not a tech expert. Any suggestions as to how to remedy this would be appreciated.
>
> Thanks
>
> Chuck
>
>
>
Chuck, this could just be that you have a dead RAM memory back up battery. If you try to enter a frequency and / or mode directly and it works then that is it, but you may also need to run BITE to let the radio know what filters are installed, all that stuff should be retained in RAM.

Dan
ac6ao

1314. Re: New RA6790GM Help

Yahoo group: Racal6790GM
Date: 2009-06-03 20:06:55 UTC
From: Graham
Topic: 1311 Message: 1314

--- In Racal6790GM@yahoogroups.com, "Charles Keiser" <ckeiser10@...> wrote:
>
> I just received a RA-9690GM that I bought on ebay. (first mistake??) I turned on the unit and got a fault light. The first time I got the error message "0000". The next time I powered it on I got the message "0H090-0" the third time I got the message 0H080P0. I am a shortwave listener and not a tech expert. Any suggestions as to how to remedy this would be appreciated.
>
> Thanks
>
> Chuck
>

I wonder if the memory battery is flat or leaking and causing problems on power on .. you could try leaving it powered on for a day, as long as there is not anthing 'shorting' it may reform any leaky items ..

If it was advertised as working on e-bay, first would be to inform the seller , re a refund, reduction in the price or replacement , Looks like your in the usa ? which case help is not too far away, this side of the pond, its a lot of postage stamps and a long wait hi

Good luck, once its running or replaced i think you'l find it a good all round set , agc is a bit mechanical, but thats really down to the huge dynamic range, bit like going from a tape to a cd

G ..

1315. Re: New RA6790GM Help

Yahoo group: Racal6790GM
Date: 2009-06-03 21:57:24 UTC
From: Charles Keiser
Topic: 1311 Message: 1315

--- In Racal6790GM@yahoogroups.com, "Graham" <g0nbd@...> wrote:
>
> --- In Racal6790GM@yahoogroups.com, "Charles Keiser" <ckeiser10@> wrote:
> >
> > I just received a RA-9690GM that I bought on ebay. (first mistake??) I turned on the unit and got a fault light. The first time I got the error message "0000". The next time I powered it on I got the message "0H090-0" the third time I got the message 0H080P0. I am a shortwave listener and not a tech expert. Any suggestions as to how to remedy this would be appreciated.
> >
> > Thanks
> >
> > Chuck
> >
>
> I wonder if the memory battery is flat or leaking and causing problems on power on .. you could try leaving it powered on for a day, as long as there is not anthing 'shorting' it may reform any leaky items ..
>
> If it was advertised as working on e-bay, first would be to inform the seller , re a refund, reduction in the price or replacement , Looks like your in the usa ? which case help is not too far away, this side of the pond, its a lot of postage stamps and a long wait hi
>
> Good luck, once its running or replaced i think you'l find it a good all round set , agc is a bit mechanical, but thats really down to the huge dynamic range, bit like going from a tape to a cd
>
> G ..
>
Thanks all for your input. The set goes into the BITE test as soon as its turned on. I will check the battery and see if its dead. I hope that is the problem. The seller of the unit said he had it running for two weeks in the background with no problems. We'll see..

Thanks

Chuck

1316. Re: [Racal6790GM] Re: New RA6790GM Help

Yahoo group: Racal6790GM
Date: 2009-06-03 22:25:50 UTC
From: Dan Rae
Topic: 1311 Message: 1316

Charles Keiser wrote:
> --- In Racal6790GM@yahoogroups.com, "Graham" <g0nbd@...> wrote:
>
>> --- In Racal6790GM@yahoogroups.com, "Charles Keiser" <ckeiser10@> wrote:
>>
>>
> Thanks all for your input. The set goes into the BITE test as soon as its turned on. Another sign of a dead battery.
> I will check the battery and see if its dead. I hope that is the problem. The seller of the unit said he had it running for two weeks in the background with no problems. We'll see..
>
>
Not "Radiomart" I hope...

Chuck, The thing should work with no battery at all. In fact if you change the battery quick enough it will not even lose the memory because there is a tantalum capacitor that will hold the RAM Voltage up for a few minutes only. A good set without battery will continue to work until you turn it off for a period, at which point, if it loses the RAM contents, you will see the garbage on the display similar to what you have next time you switch on. The two RAM ICs store the frequency information digits alternately which is why you get patterns alternating like you have. These are not error codes as such. If you cannot enter a frequency directly from the keyboard then I would suspect a faulty RAM. It should be a matter of a few minutes button pushing only to find this out.

Dan

ac6ao

1317. Re: New RA6790GM Help

Yahoo group: Racal6790GM
Date: 2009-06-04 01:52:27 UTC
From: Charles Keiser
Topic: 1311 Message: 1317

Dan

Yes -- Radio Mart. I got the set to give me an error message #31. I reseated the filter in #1 and that took care of that. I now get an error "01". I also get the strange numbers at start-up. I can now get the radio to work and am picking up stations with a 2 ft section of wire. The fault light flickers at random and gives noise in the headphones when it does. I am going to let it run over night and see what happens in the morning.

Chuck

1318. Re: [Racal6790GM] RA6790 and CW Skimmer; Mods [1 Attachment]

Yahoo group: Racal6790GM
Date: 2009-05-08 23:42:08 UTC
From: Leigh Sedgwick
Topic: 1318 Message: 1318

Thanks Larry for this data....I just might have to give it a go.

73 Mike, K7PI

----- Original Message -----
From: "H Lawrence Serra" <hlserra@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Friday, May 08, 2009 2:10 PM
Subject: [Racal6790GM] RA6790 and CW Skimmer; Mods [1 Attachment]

I don't know if any of you saw this article from the MAR-APR '09 issue of
the National Contest Journal, but it contains some interesting mods to the
RA6790 to protect the front end from fast QSK transmissions (thanks, Gary
Wingerd), and to squelch the AGC during transmit by using a voltage follower
to trick the diversity receive capability features of the RA6790 (thanks,
Graham G0NBD).

73, Larry N6NC

1319. Re: [Racal6790GM] New RA6790GM Help

Yahoo group: Racal6790GM
Date: 2009-06-04 03:49:37 UTC
From: mparkinson1
Topic: 1311 Message: 1319

If you bought the radio from Radiomart he is an outright crook.
If you look at the receivers he is selling look at the mode displays they are not working correctly I contacted him about it and guess what he knew it and still claims they are working but they are not working correctly the displays should have all kinds of information on them even without a signal that is the first clue.
The guy has been a crook for years google his name and take a look.
Matt Parkinson Military Equipment & R 390A Depot Center

1320. ISB Board??

Yahoo group: Racal6790GM
Date: 2009-06-04 13:35:03 UTC
From: Charles Keiser
Topic: 1320 Message: 1320

I am still working on my ebay purchase and I have one other question for the group. The set was advertised as having an ISB board option. There is a board in that location but it doesn't look like the pictures of an ISB board from the manual. It has no ribbon cable attached and has a shield over the board. It is marked 23386 ASSY 4100020. It has two tuning holes marked L1 and L2. Under the shield is a crystal marked 61.855 MHz. I didn't see this in the manual so can anyone give me an idea what this is?

Thanks

Chuck

1321. Re: [Racal6790GM] New RA6790GM Help

Yahoo group: Racal6790GM
Date: 2009-06-04 13:44:30 UTC
From: oscar873@aol.com
Topic: 1311 Message: 1321

-----Original Message-----
From: mparkinson1 <mparkinson1@...>
To: Racal6790GM@yahoogroups.com
Sent: Wed, 3 Jun 2009 8:49 pm
Subject: Re: [Racal6790GM] New RA6790GM Help

If you bought the radio from Radiomart he is an outright crook.

If you look at the receivers he is selling look at the mode displays
they are not working correctly I contacted him about it and guess what
he knew it and still claims they are working but they are not working
correctly the displays should have all kinds of information on them
even without a signal that is the first clue.

The guy has been a crook for years google his name and take a look.

Matt Parkinson Military Equipment & R 390A Depot Center

1322. Re: [Racal6790GM] Re: New RA6790GM Help

Yahoo group: Racal6790GM
Date: 2009-06-04 13:27:29 UTC
From: Dan Rae
Topic: 1311 Message: 1322

Charles Keiser wrote:
> Dan
>
> Yes -- Radio Mart. I got the set to give me an error message #31. I reseated the filter in #1 and that took care of that. I now get an error "01". I also get the strange numbers at start-up. I can now get the radio to work and am picking up stations with a 2 ft section of wire. The fault light flickers at random and gives noise in the headphones when it does. I am going to let it run over night and see what happens in the morning.
>
>
>
Chuck,

I don't remember the details of that particular one. I don't usually pay much attention to his listings except to wonder at the extent of his hyperbole. If it has an old black Nicad fitted to the A6A2 cpu board marked "Data Sentry" then I would suggest you remove it as soon as possible. Unfortunately those leak a caustic alkali after twenty years or less and cause a lot of damage to the board and especially to the components near to it, which unfortunately include the two RAM ICs.

New NiMH equivalent batteries are available from Mouser or Gary Wingerd for about the same money and these effectively will not leak.

You will get (mostly :^)) good advice here, and if you need it Gary fixes these as a business, so all is not lost. It is a pity you didn't ask here before buying it though. I wouldn't perhaps go as far as Matt concerning this person; he is indeed notorious for buying under another name and then reselling with wildly inaccurate descriptions, which eBay apparently tolerate because he is a good earner for them... I think a lot of us have good, aligned, and working Radios that we might be persuaded to part with if asked.

Good luck,

Dan

ac6ao

1323. Re: [Racal6790GM] ISB Board??

Yahoo group: Racal6790GM
Date: 2009-06-04 14:09:23 UTC
From: Dan Rae
Topic: 1320 Message: 1323

Charles Keiser wrote:
> I am still working on my ebay purchase and I have one other question for the group. The set was advertised as having an ISB board option. There is a board in that location but it doesn't look like the pictures of an ISB board from the manual. It has no ribbon cable attached and has a shield over the board. It is marked 23386 ASSY 4100020. It has two tuning holes marked L1 and L2. Under the shield is a crystal marked 61.855 MHz. I didn't see this in the manual so can anyone give me an idea what this is?
>
> Thanks
>
> Chuck
>
>
>
Given that 40.455 + 21.4 equals 61.855, I would hazard a guess that it is a board to produce a wide output at 21.4 MHz for use with a spectrum display unit. You could tell perhaps more from where the coax connections to it go to and come from. It is not an ISB board by any stretch of the imagination... It is not one I have seen before, maybe Gary could shed some light on it?

Dan

1324. Re: [Racal6790GM] ISB Board??

Yahoo group: Racal6790GM
Date: 2009-06-04 18:37:56 UTC
From: gewingerd@netzero.com
Topic: 1320 Message: 1324

Chuck,

It is a wide band 21.4 MHz converter card. It has a TCXO, mixer, amps, filter and some alignments as far as I can remember. I have looked in the shop and I don't see any drawings for the card, I did have some more info, I will see what I can find.

Thanks,
Gary

1325. RA6790: Small mica insulator for Q4 on A-7 board?

Yahoo group: Racal6790GM
Date: 2009-06-06 15:38:22 UTC
From: H Lawrence Serra
Topic: 1325 Message: 1325

Help! I seem to have lost in transit the small clear mica insulator wafer that sits under the small angle bracket that supports the rectangular, 3-lead transistor Q4 on the A-7 L.O. board. (It is located near the southwest corner of the A-7 board in the bottom chassis of the RA6790 when viewed from the front panel side of the radio. It is shown as Q4 on Figure 6-11, page 6-37 of the RA6790 manual.)

Question: Can I use some plumber's Teflon tape as a subsitute, or some clear plastic cut from that difficult-to-open consumer packaging?

73, Larry N6NC

1326. Re[2]: [Racal6790GM] RA6790 and CW Skimmer; Mods

Yahoo group: Racal6790GM
Date: 2009-06-06 16:55:35 UTC
From: support
Topic: 1318 Message: 1326

Does anyone have a cpy of the article to share? I have 2 6790's and would like to implement the mod.

tnx,
bc

********** REPLY SEPARATOR **********

On 5/8/09 at 4:42 PM Leigh Sedgwick wrote:

Thanks Larry for this data....I just might have to give it a go.

73 Mike, K7PI

----- Original Message -----
From: "H Lawrence Serra" <hlserra@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Friday, May 08, 2009 2:10 PM
Subject: [Racal6790GM] RA6790 and CW Skimmer; Mods [1 Attachment]

I don't know if any of you saw this article from the MAR-APR '09 issue of
the National Contest Journal, but it contains some interesting mods to the
RA6790 to protect the front end from fast QSK transmissions (thanks, Gary
Wingerd), and to squelch the AGC during transmit by using a voltage
follower
to trick the diversity receive capability features of the RA6790 (thanks,
Graham G0NBD).

73, Larry N6NC

1327. New file uploaded to Racal6790GM

Yahoo group: Racal6790GM
Date: 2009-06-06 17:25:01 UTC
From: Racal6790GM@yahoogroups.com
Topic: 168 Message: 1327

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the Racal6790GM
group.

File : /NCJ Sweeper-Beeper article by N6NC.pdf
Uploaded by : n6nc2007 <hlserra@...>
Description : RA6790 CW Skimmer Mods

You can access this file at the URL:
http://groups.yahoo.com/group/Racal6790GM/files/NCJ%20Sweeper-Beeper%20article%20by%20N6NC
.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

n6nc2007 <hlserra@...>

1328. Re: RA6790 and CW Skimmer; Mods

Yahoo group: Racal6790GM
Date: 2009-06-06 17:27:28 UTC
From: n6nc2007
Topic: 1318 Message: 1328

I added the Sweeper-Beeper article (RA6790 mods for CW Skimmer) to the Files section of the use group. 73, Larry N6NC

--- In Racal6790GM@yahoogroups.com, "support" <billc@...> wrote:
>
> Does anyone have a cpy of the article to share? I have 2 6790's and would like to implement the mod.
>
> tnx,
> bc
>
> ********** REPLY SEPARATOR **********
>
> On 5/8/09 at 4:42 PM Leigh Sedgwick wrote:
>
> Thanks Larry for this data....I just might have to give it a go.
>
> 73 Mike, K7PI
>
> ----- Original Message -----
> From: "H Lawrence Serra" hlserra@...
> To: Racal6790GM@yahoogroups.com
> Sent: Friday, May 08, 2009 2:10 PM
> Subject: [Racal6790GM] RA6790 and CW Skimmer; Mods [1 Attachment]
>
>
>
> I don't know if any of you saw this article from the MAR-APR '09 issue of
> the National Contest Journal, but it contains some interesting mods to the
> RA6790 to protect the front end from fast QSK transmissions (thanks, Gary
> Wingerd), and to squelch the AGC during transmit by using a voltage
> follower
> to trick the diversity receive capability features of the RA6790 (thanks,
> Graham G0NBD).
>
> 73, Larry N6NC
>

1329. Re: [Racal6790GM] Re: RA6790 and CW Skimmer; Mods

Yahoo group: Racal6790GM
Date: 2009-06-07 00:02:11 UTC
From: support
Topic: 1318 Message: 1329

Thanks, Larry. Got it. Very interesting.

bc

********** REPLY SEPARATOR **********

On 6/6/09 at 5:27 PM n6nc2007 wrote:

I added the Sweeper-Beeper article (RA6790 mods for CW Skimmer) to the
Files section of the use group. 73, Larry N6NC

--- In Racal6790GM@yahoogroups.com, "support" <billc@...> wrote:
>
> Does anyone have a cpy of the article to share? I have 2 6790's and
would like to implement the mod.
>
> tnx,
> bc
>
> ********** REPLY SEPARATOR **********
>
> On 5/8/09 at 4:42 PM Leigh Sedgwick wrote:
>
> Thanks Larry for this data....I just might have to give it a go.
>
> 73 Mike, K7PI
>
> ----- Original Message -----
> From: "H Lawrence Serra" hlserra@...
> To: Racal6790GM@yahoogroups.com
> Sent: Friday, May 08, 2009 2:10 PM
> Subject: [Racal6790GM] RA6790 and CW Skimmer; Mods [1 Attachment]
>
>
>
> I don't know if any of you saw this article from the MAR-APR '09 issue
of
> the National Contest Journal, but it contains some interesting mods to
the
> RA6790 to protect the front end from fast QSK transmissions (thanks,
Gary
> Wingerd), and to squelch the AGC during transmit by using a voltage
> follower
> to trick the diversity receive capability features of the RA6790
(thanks,
> Graham G0NBD).

>
> 73, Larry N6NC
>

1330. 6790/GM Noise Floor

Yahoo group: Racal6790GM
Date: 2009-06-08 19:21:47 UTC
From: bobbetts06
Topic: 1330 Message: 1330

Hi Group:
Lately, I seem to be hearing a slight increase in background hiss from my 6790/GM. It's like the MDS isn't what it should be. I don't have the other one here to compare it to. Maybe it's just me, or maybe it's real. I was wondering if anyone else has ever noticed a similar thing, maybe a common aging malady, or had any ideas on what to look for before I go scope-probing around in there. BITE and all functions are otherwise normal.
Thanks in advance,
Bob

1331. Re: [Racal6790GM] 6790/GM Noise Floor

Yahoo group: Racal6790GM
Date: 2009-06-09 09:21:15 UTC
From: gewingerd@netzero.com
Topic: 1330 Message: 1331
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1332. Re: [Racal6790GM] 6790/GM Noise Floor [2 Attachments]

Yahoo group: Racal6790GM
Date: 2009-06-09 12:59:30 UTC
From: Bob Betts
Topic: 1332 Message: 1332

Thanks Gary:
No there's definitely no RFI in the area and nothing bad coming down the antennas.
I appreciate the help -- will try to get it on the bench this weekend.
Thanks,
Bob, N1KPR

http://www.bobsamerica.com
Music, Audio, Radio
"It's all good."

--- On Tue, 6/9/09, gewingerd@... <gewingerd@...> wrote:

From: gewingerd@... <gewingerd@netzero.com>
Subject: Re: [Racal6790GM] 6790/GM Noise Floor [2 Attachments]
To: Racal6790GM@yahoogroups.com
Date: Tuesday, June 9, 2009, 5:21 AM

Bob,

Most back ground noise is caused by external sources, turn off everything else in the room and see if the noise goes down.
One or more of the FET's could be weak in the A2 mixer box causing noise and BITE will still pass. I have attached the alignment for the receiver, hope this will help.

Thanks,
Gary

Yahoo! Groups Links

1333. Re: Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-06-11 16:12:41 UTC
From: ac6ao
Topic: 1299 Message: 1333

--- In Racal6790GM@yahoogroups.com, "scm325" <scm325@...> wrote:
>
> Missed a good deal at Dayton Hamfest by seconds....12 RA 6790/GMs for $1800...made me want to cry....all had all modules, covers, and 4-5 filters... This was the last 12 od about 15....they were selling for $200 your choice.....)-:
>
> SCM325
>

So it looks like that's where Martyn (aka Radio-Mart) got his latest eBay batch from, most of which seem to be faulty in one way or another...

dr

1334. Re: [Racal6790GM] Re: Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-06-11 16:52:32 UTC
From: gewingerd@netzero.com
Topic: 1299 Message: 1334

Martyn (aka Radio-Mart) on Ebay were all removed because the seller broke one or more of eBay's rules:

270402265058 - Racal RA-6790GM Receiver With 5 Filters + RS-232 But

250437284269 - Racal RA-6790GM Receiver * In Excellent Condition * But

Thanks,
Gary

1335. RE: [Racal6790GM] Re: Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-06-11 17:11:05 UTC
From: Carcia, Francis A HS
Topic: 1299 Message: 1335

did you guys see the price of the RA6830 sold a couple days ago. That was a good deal even if it doesn't work.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of ac6ao
Sent: Thursday, June 11, 2009 12:13 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Good deal at Dayton

--- In Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com> , "scm325" <scm325@...> wrote:
>
> Missed a good deal at Dayton Hamfest by seconds....12 RA 6790/GMs for $1800...made me want to cry....all had all modules, covers, and 4-5 filters... This was the last 12 od about 15....they were selling for $200 your choice.....)-:
>
> SCM325
>

So it looks like that's where Martyn (aka Radio-Mart) got his latest eBay batch from, most of which seem to be faulty in one way or another...

dr

1336. Re: [Racal6790GM] Re: Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-06-11 17:22:30 UTC
From: Dan Rae
Topic: 1299 Message: 1336

Carcia, Francis A HS wrote:
>
>
> did you guys see the price of the RA6830 sold a couple days ago. That
> was a good deal even if it doesn't work.
>
> ---
> **
I bought it Frank. We'll see :^)

But I never met a racal I couldn't fix, some just take longer than others.

Dan

ac6ao

1337. RE: [Racal6790GM] Re: Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-06-11 18:34:45 UTC
From: Carcia, Francis A HS
Topic: 1299 Message: 1337

The only thing different will be the processor board all the RF circuits
are similar to the 6790 except the first mixer using the SD5000.
If you get high digital noise put an insulator between first and second
mixer modules to break loop. A common mode bead in second mixer
input coax helps. I've also put chip caps on some control leads. The
hardest thing to fix is an open trace on the CPU.
Gary has new front panels I just bought one as a spare. It will look
like a new radio. frank

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Dan Rae
Sent: Thursday, June 11, 2009 1:23 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Re: Good deal at Dayton

Carcia, Francis A HS wrote:
>
>
> did you guys see the price of the RA6830 sold a couple days ago. That
> was a good deal even if it doesn't work.
>
> ----------
> **
I bought it Frank. We'll see :^)

But I never met a racal I couldn't fix, some just take longer than
others.

Dan

ac6ao

1338. Re: [Racal6790GM] Re: Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-06-11 20:05:51 UTC
From: casy_ch@tbwil.ch
Topic: 1299 Message: 1338

Hi Gary

Take another one on the list:
250426729512 - Racal RA-6790GM - Receiver with 3 Filters + RS-232 as described hereafter:
I am pleased to bring to you this exceptional Racal RA-6790GM short wave receiver in Amazing overall Condition. It is in excellent condition... I have given the receiver a good test, it seems a very sensitive rig, I found that the adjustment of the BFO is useful and I believe it is working to spec. ...feel the receiver is performing perfectly, the tuning smooth and all switches and controls positive and responsive; in fact the set looks to have had very little use, there are just the 3 filters fitted and the receiver seems perfect for what I wanted it for, on AM, WOW, it sounds beautiful.
I must point out that due to the complexity of this receiver, I am having to sell it as is with no return possible, if it ever went wrong I would not be able to repair it, but I know a man who can, Gary.

I am the buyer and unfortunately only found out after the auction end that the man was not very serious. I wrote him and this is the answer:

Hi there Jean
I did not experience any troubles with the receiver and I am very sorry to hear that you are?
sounds very much like a poor connection or dry joint from how you describe the issue.
The battery is the sentuary battery,, side Right PCB,, looking from the front, looks like a black box of matches,, thats the battery
Hope this info helps.

I just gave him a negative feedback eventhough he seems to be out "at the moment".

Now I do not know what to do with the receiver. Here and there it is showing a fault when powering up. After switching it off 10-15 min. it powers up ok. Above all the receiver is absolutely insensitive. One can barely listen to AM on MW and on 7 or 14MHz I get only hiss. On MW when I want to get a station the receiver AF goes like into standby or under an abolute RF overload blocking any audio. To me the rig is a scrap at the moment and here on the other side of the pond I know no people to repair it. I have a number of commercial and pro receivers and thought the RA-6790 would be better as i.e. the UK made RA-1792 but it is not the case at all with me.

Jean-Claude
Switzerland
----- Original Message -----
From: gewingerd@netzero.com
To: Racal6790GM@yahoogroups.com
Sent: Thursday, June 11, 2009 6:52 PM
Subject: Re: [Racal6790GM] Re: Good deal at Dayton

Martyn (aka Radio-Mart) on Ebay were all removed because the seller broke one or more of eBay's rules:

270402265058 - Racal RA-6790GM Receiver With 5 Filters + RS-232 But

250437284269 - Racal RA-6790GM Receiver * In Excellent Condition * But

Thanks,
Gary

Yahoo! Groups Links

1339. Re: [Racal6790GM] Re: Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-06-12 00:29:44 UTC
From: mparkinson1
Topic: 1299 Message: 1339

I tried to warn everyone that if you deal with Radiomart you in for a rough ride.
Jean Google his name Radio mart and what you will read and you will know why and what you bought.

I can repair these receiver and so can Gary who is the expert if you were to send your receiver either of us it would be repaired correctly although Gary has most parts and surley can repair the receiver and align it to factory specs for sure.
Gary will give you his best deal also for the price its the shipping it might cost you.
Jean you might also write to Ebay and tell them thousand are are feeling the same way and are having the same experience you had with Radiomart.
I noticed in his latest auction with the 6790 he is now claiming that this receiver doesn't work and will need repair.

Matt Parkinson Military Equipment & R 390A Depot Center

1340. Re: [Racal6790GM] Re: Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-06-11 21:07:30 UTC
From: Dan Rae
Topic: 1299 Message: 1340

casy_ch@... wrote:
> I am the buyer and unfortunately only found out after the auction end
> that the man was not very serious. I wrote him and this is the answer:
> **
> *Hi there Jean*
> *I did not experience any troubles with the receiver and I am very
> sorry to hear that you are?*
> *sounds very much like a poor connection or dry joint from how you
> describe the issue.*
> *The battery is the sentuary battery,, side Right PCB,, looking from
> the front, looks like a black box of matches,, thats the battery*
> *Hope this info helps.*
> **
> I just gave him a negative feedback eventhough he seems to be out "at
> the moment".
>
> Now I do not know what to do with the receiver. Here and there it is
> showing a fault when powering up. After switching it off 10-15 min. it
> powers up ok. Above all the receiver is absolutely insensitive. One
> can barely listen to AM on MW and on 7 or 14MHz I get only hiss. On MW
> when I want to get a station the receiver AF goes like into standby or
> under an abolute RF overload blocking any audio. To me the rig is a
> scrap at the moment and here on the other side of the pond I know no
> people to repair it. I have a number of commercial and pro receivers
> and thought the RA-6790 would be better as i.e. the UK made RA-1792
> but it is not the case at all with me.
Oh dear... Jean-Claude, I am so very sorry to hear of your bad experience, this must be the second one of these receivers that he has sold recently that don't work. I am sure there will be someone in Europe who can fix it for you, they are not that different from the UK RA1792, and anyone who has fixed those would find it very easy. If you could isolate which board was faulty, then I am sure it would not cost very much in postage to send that board to Gary for repair, but it does sound as if there may be more than one faulty board. The pictures have gone from the listing, so there are not any clues from that. It may be worth asking ebay to get you a refund; frankly that description, and his answer to your question is a load of absolute rubbish. If anything qualifies as being wrongly described, that radio is it.

If you can not get a refund from Paypal or ebay, then I would suggest that you ask on the Premium receiver group which has a number of European members and there may be someone who is willing to help you fix it. I have had a number of receivers here that have had even more odd symptoms than yours, and none were actually that hard to fix, in the end.

Bonne chance!

Dan

ac6ao / g3ncr

1341. Re: [Racal6790GM] Re: Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-06-12 09:37:35 UTC
From: gewingerd@netzero.com
Topic: 1299 Message: 1341

Yes I can repair any of the RA6790/GM because I built most of them and tested them when I worked for RACAL, the only difference now is that it used to cost $105.00 an hour to repair the receivers at RACAL and I charge $35.00 an hour plus parts and shipping.

I have repaired some of the receivers from radio mart via ebay after the arrived at the new owners, which have had some of the same things I keep seeing, most of the receivers have been repaired and returned for less than $305.00 and that included parts and shipping. The latest were problems with the internal battery, caps, software, displays, driver ic's, BITE ic on the A4 card, alignments, bad trim pots on the A7 card, loose RF input connectors and mis-plugged connectors.

My address is;
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733
USA

Thanks,
Gary

1342. Re: Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-06-12 12:52:57 UTC
From: Charles Keiser
Topic: 1299 Message: 1342

I am also the owner of on of those Radio-Mart ebay Racal receivers with the same general description as above. I asked the group several questions trying to get it running. In my email to Radio-Mart, he said it was running a couple days before he shipped it. It was described as having an ISB board that turned out to be a spectrum display adapter card. He said the unit looked like it had hardly been used. No way!!! I sent it to Gary and he did his magic. $275.00 later, the unit is back running. I left negative feedback for Radio-Mart. I join the list of those who will avoid him in the future.

Chuck

1343. RE: [Racal6790GM] Re: Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-06-12 12:57:51 UTC
From: Carcia, Francis A HS
Topic: 1299 Message: 1343

Everybody I know assumes (ass U Me) anything this clown sells is broken. He is a bottom feeder who buys junk and pumps up the value on epay.
So don't pay a lot of money and know there will be repairs.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Charles Keiser
Sent: Friday, June 12, 2009 8:53 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Good deal at Dayton

I am also the owner of on of those Radio-Mart ebay Racal receivers with the same general description as above. I asked the group several questions trying to get it running. In my email to Radio-Mart, he said it was running a couple days before he shipped it. It was described as having an ISB board that turned out to be a spectrum display adapter card. He said the unit looked like it had hardly been used. No way!!! I sent it to Gary and he did his magic. $275.00 later, the unit is back running. I left negative feedback for Radio-Mart. I join the list of those who will avoid him in the future.

Chuck

1344. Re: Good deal at Dayton

Yahoo group: Racal6790GM
Date: 2009-06-19 17:32:36 UTC
From: scm325
Topic: 1299 Message: 1344

Hadn't looked back at this thread for a while....now I doublely upset / regret that I didn't get them first....it was a great deal @ $150.00 per radio, and looks like I would have saved some other folks from dealing with Radio Mart.

SCM325

--- In Racal6790GM@yahoogroups.com, "Carcia, Francis A HS" <francis.carcia@...> wrote:
>
> Everybody I know assumes (ass U Me) anything this clown sells is
> broken. He is a bottom feeder who buys junk and pumps up the value on
> epay.
> So don't pay a lot of money and know there will be repairs.
>
> _____
>
> From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
> On Behalf Of Charles Keiser
> Sent: Friday, June 12, 2009 8:53 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Re: Good deal at Dayton
>
>
>
>
>
>
> I am also the owner of on of those Radio-Mart ebay Racal receivers with
> the same general description as above. I asked the group several
> questions trying to get it running. In my email to Radio-Mart, he said
> it was running a couple days before he shipped it. It was described as
> having an ISB board that turned out to be a spectrum display adapter
> card. He said the unit looked like it had hardly been used. No way!!! I
> sent it to Gary and he did his magic. $275.00 later, the unit is back
> running. I left negative feedback for Radio-Mart. I join the list of
> those who will avoid him in the future.
>
> Chuck
>

1345. For Sale: 6 khz AM filter + RS232 remote connector

Yahoo group: Racal6790GM
Date: 2009-06-22 00:21:57 UTC
From: Mike
Topic: 1345 Message: 1345

I have the following RA6790GM related items for sale:

1. New RS232 Remote Connector - $35 + $5 shipping

2. Sherwood Engineering - Collins 6 khz mechanical filter (for AM)
mounted on a custom circuit board with matching setup for use with
the RA6790GM. Collins part number 526 8622 010,
FO 455 BW 6 khz, 9208.
$110 + $7 shipping.

Payment via PayPal (bank cash transfer only), Money Order, or personal check

Pictures of the above can be viewed at:

http://home.comcast.net/~exbpi/temp/sales_racal.html

Thank You

Mike, K7PI
Mercer Island, WA

1346. RE: [Racal6790GM] RA6790: Small mica insulator for Q4 on A-7 board?

Yahoo group: Racal6790GM
Date: 2009-06-06 16:13:24 UTC
From: Ed Tanton
Topic: 1325 Message: 1346

Remember TFE 'flows' so if there is any pressure (as in: 'if it is clamped down' and it sounds like it is) TFE might not me the best idea-otherwise, I don't see why not. I can send you a piece of Kapton (which is harder than TFE but with a lot of pressure might do the same thing.) Make certain whatever you use, that there are no sharp edges on the bracket that might-again: under pressure-cut through your insulator.

If it is literally just a flat piece of metal, I don't THINK the TFE would 'flow' enough in our lifetime (!) to matter since the pressure then would be distributed over the area of the bracket. Also, you could-if the size works-carefully cut down a TO-3 mica insulator for it.

Ed Tanton

website: http://www.n4xy.com <http://www.n4xy.com/>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

Wag more - Bark Less

1347. Re: RA6790: Small mica insulator for Q4 on A-7 board?

Yahoo group: Racal6790GM
Date: 2009-06-06 16:04:47 UTC
From: Graham
Topic: 1325 Message: 1347

--- In Racal6790GM@yahoogroups.com, H Lawrence Serra <hlserra@...> wrote:
>
> Help! I seem to have lost in transit the small clear mica insulator wafer that sits under the small angle bracket that supports the rectangular, 3-lead transistor Q4 on the A-7 L.O. board. (It is located near the southwest corner of the A-7 board in the bottom chassis of the RA6790 when viewed from the front panel side of the radio. It is shown as Q4 on Figure 6-11, page 6-37 of the RA6790 manual.)
>
> Question: Can I use some plumber's Teflon tape as a subsitute, or some clear plastic cut from that difficult-to-open consumer packaging?
>
> 73, Larry N6NC
>

Larry

Ptfe or 'hard' plastic is not as stable 'mica sheet' and will creep , some thin fiberglass board would be a good replacement or tufnoll , nylon washer from the local shop ?

G ..

nb , how did the contest go ?

1348. My 6790/GM is broken!

Yahoo group: Racal6790GM
Date: 2009-07-07 02:48:37 UTC
From: echelon396
Topic: 1348 Message: 1348

This is my first post in this group. So first let me say hello the everybody, my name is Jayme, KB6JGR.

Unfortunately my first post is about my broken radio! I just bought it on ebay and it has serious problems. The fault LED on the front panel flashes intermittently, (very quick flash). The only mode that sort of works is AM, but with very loud pops that occur during the fault LED flashing. CW SSB sounds like a strange "garbled motor boat", the BFO does not work. I found a PDF on the web with all of the troubleshooting info, and its says the fault LED points to synthesizer failure, card A7 and A8. I opened the radio and looked everything over very carefully and could not find any loose connections. I did the BITE test and no error codes came back. Does anyone know of anyone who repairs these radios? I really need as much help with this as I can get!

Jayme
KB6JGR

1349. Re: [Racal6790GM] My 6790/GM is broken!

Yahoo group: Racal6790GM
Date: 2009-07-07 03:02:51 UTC
From: mparkinson1
Topic: 1348 Message: 1349

Contact Gary
he will take care of all your needs.
Tell Gary I send you to him.

Here is his email gewingerd@... <gewingerd@...>
Matt Parkinson Military Equipment & R 390A Depot Center

1350. Re: [Racal6790GM] My 6790/GM is broken!

Yahoo group: Racal6790GM
Date: 2009-07-07 12:20:36 UTC
From: gewingerd@netzero.com
Topic: 1348 Message: 1350

Jayme,

Send it to me and I will fix it for you. I charge $35.00 an hour plus parts and shipping. I should be able to get it running for less than $300.00 with shipping in the USA. I ship US Mail Priority with Delivery Confirmation in a double box to protect the unit.

My address is;
Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD 21733

Thanks,
Gary

1351. Re: [Racal6790GM] My 6790/GM is broken!

Yahoo group: Racal6790GM
Date: 2009-07-07 14:59:52 UTC
From: Joe Na
Topic: 1348 Message: 1351

Hi Gary,

I didn't know you were on this list but I should have expected it. I bought the 6790 from Greg Shepherd that you built for him (SN9999). I'm having a bit of trouble with a couple of the filters but other than that, that is one FINE radio! It has the ELF option, protected RF preamp, LEDs in display, uProcessor shield, RS-232 link, ALL the filters, etc. Everything but the ISB option.

Joe

--- On Tue, 7/7/09, gewingerd@... <gewingerd@...> wrote:

> From: gewingerd@... <gewingerd@...>
> Subject: Re: [Racal6790GM] My 6790/GM is broken!
> To: Racal6790GM@yahoogroups.com
> Date: Tuesday, July 7, 2009, 12:20 PM
> Jayme,
>
> Send it to me and I will fix it for you. I charge $35.00
> an hour plus parts and shipping. I should be able to get it
> running for less than $300.00 with shipping in the USA. I
> ship US Mail Priority with Delivery Confirmation in a double
> box to protect the unit.
>
> My address is;
> Gary E. Wingerd
> 9107 Jordan Rd.
> Fairplay, MD 21733
>
> Thanks,
> Gary
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:Racal6790GM-fullfeatured@yahoogroups.com
>
>
>

1352. Re: [Racal6790GM] My 6790/GM is broken!

Yahoo group: Racal6790GM
Date: 2009-07-07 15:19:17 UTC
From: gewingerd@netzero.com
Topic: 1348 Message: 1352
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1353. filters was: Re: My 6790/GM is broken!

Yahoo group: Racal6790GM
Date: 2009-07-07 16:45:05 UTC
From: Joe Na
Topic: 1353 Message: 1353

Thanks Gary. I wasn't aware that you could "force" the filters. Does this actually change how they operate or only what the radio reports? Will running BIT reset the reported filter values?

Joe

--- On Tue, 7/7/09, gewingerd@... <gewingerd@...> wrote:

> From: gewingerd@... <gewingerd@...>
> Subject: Re: [Racal6790GM] My 6790/GM is broken! [1 Attachment]
> To: Racal6790GM@yahoogroups.com
> Date: Tuesday, July 7, 2009, 3:19 PM
> Joe,
>
> On the filter problem you can try the forced filter
> installation and see if that works, I've attached the file.
>
> Thanks,
> Gary
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:Racal6790GM-fullfeatured@yahoogroups.com
>
>
>

1354. Re: [Racal6790GM] filters

Yahoo group: Racal6790GM
Date: 2009-07-07 17:14:44 UTC
From: Dan Rae
Topic: 1353 Message: 1354

Joe Na wrote:
> Thanks Gary. I wasn't aware that you could "force" the filters. Does this actually change how they operate or only what the radio reports?
To save Gary some typing:
The procedure is described in the later version manuals, but applies, as far as I know to all. It only changes what is displayed on the panel, and presumably what is reported to the remote controller.
> Will running BIT reset the reported filter values?
>
>
Yes, if you want to run BITE it will then report the values it finds, so if you want to keep the "real" widths you will need to go through the procedure again... According to the manual BITE can be up to 25% off from the marked value; in my experience with some of the filters it can be much more than that, usually higher. I always set the widths manually for that reason.

I think Racal specified the filters at the -1 dB point. With filters that have a shallow slope to the sides they can effectively be a lot wider as seen by BITE.

Dan
ac6ao

1355. RE: [Racal6790GM] filters

Yahoo group: Racal6790GM
Date: 2009-07-07 20:04:25 UTC
From: Gordon & Lois Duff
Topic: 1353 Message: 1355

Recent discussion about BITE, filter widths and forcing filter widths raises a question for me. BITE determines filter widths and displays them; the operator can force certain filters; and the filters have some width printed on their cases. Why would one assume that BITE was reporting is less accurate than the case marking? Maybe the case marking is no longer valid and BITE is on target. Has anyone measured filters external to the radio and compared the results to BITE and the case markings?

Gordon, KA2NLM

1356. Re: [Racal6790GM] filters

Yahoo group: Racal6790GM
Date: 2009-07-07 20:34:33 UTC
From: Dan Rae
Topic: 1353 Message: 1356

Gordon & Lois Duff wrote:
>
>
> Recent discussion about BITE, filter widths and forcing filter widths
> raises a question for me. BITE determines filter widths and displays
> them; the operator can force certain filters; and the filters have
> some width printed on their cases. Why would one assume that BITE was
> reporting is less accurate than the case marking? Maybe the case
> marking is no longer valid and BITE is on target. Has anyone measured
> filters external to the radio and compared the results to BITE and the
> case markings?
>
>
>
Gordon, as I thought I'd said it is mainly down to how the filters are specified in the first place. If you look at the details listed in the manual you will see that some are specified for a certain group delay, and those have very wide skirts relative to the ones that have a good 6:60 dB ratio. In particular one filter, designed I think for the 6830 and specified as being 3 kHz wide, part number 1600121, a lot of which were sold on eBay, is nearer 6 or 7 kHz wide according to BITE and indeed sounds like it when used for AM, and thus is useless for ssb. The ones marked 3.24 kHz are the ones to look for for sideband, they have a very good shape factor. Likewise the nominal 5 kHz 1600122 is nearer 7 or 8 kHz. I think these were perhaps designed for a tightly specified group delay for HF / DF applications, but they do work for AM.

I think Racal may have specified the width at the -1dB point in any case, not the more usual -3 or -6 dB. Also with a lot of the older radios, the specified filter widths were minimums and the measured widths are often wider. All those I have looked at with a network analyser have been, other things being equal, up to spec. In all cases the only ones that have been absolutely spot on as regards to width have been the sideband filters.

As I said, in the manual BITE is only claimed to be accurate to within 25% when it comes to filter widths.
Doing the forced filter entry is very easy, and takes less than a minute, just do it after you run BITE, if you must do that :^)

Dan
ac6ao / g3ncr

1357. Re: My 6790/GM is broken!

Yahoo group: Racal6790GM
Date: 2009-07-08 01:33:04 UTC
From: vk5abc
Topic: 1348 Message: 1357

What is a uProcessor shield? do you have a picture?

Lee

--- In Racal6790GM@yahoogroups.com, Joe Na <joe.na62@...> wrote:
>
>
> Hi Gary,
>
> I didn't know you were on this list but I should have expected it. I bought the 6790 from Greg Shepherd that you built for him (SN9999). I'm having a bit of trouble with a couple of the filters but other than that, that is one FINE radio! It has the ELF option, protected RF preamp, LEDs in display, uProcessor shield, RS-232 link, ALL the filters, etc. Everything but the ISB option.
>
> Joe
>
> --- On Tue, 7/7/09, gewingerd@... <gewingerd@...> wrote:
>
> > From: gewingerd@... <gewingerd@...>
> > Subject: Re: [Racal6790GM] My 6790/GM is broken!
> > To: Racal6790GM@yahoogroups.com
> > Date: Tuesday, July 7, 2009, 12:20 PM
> > Jayme,
> >
> > Send it to me and I will fix it for you. I charge $35.00
> > an hour plus parts and shipping. I should be able to get it
> > running for less than $300.00 with shipping in the USA. I
> > ship US Mail Priority with Delivery Confirmation in a double
> > box to protect the unit.
> >
> > My address is;
> > Gary E. Wingerd
> > 9107 Jordan Rd.
> > Fairplay, MD 21733
> >
> > Thanks,
> > Gary
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >

> >
> > mailto:Racal6790GM-fullfeatured@yahoogroups.com
> >
> >
> >
>

1358. Re: [Racal6790GM] Re: My 6790/GM is broken!

Yahoo group: Racal6790GM
Date: 2009-07-08 15:14:33 UTC
From: Joe Na
Topic: 1348 Message: 1358

I was told that it was a mod that was designed and built by Gary Winegard. It's supposed to block some of the RFI generated by the microprocessor and it's clock. The screws securing the CPU board are replaced with metal standoffs and a metal plate that covers the CPU board is secured to the top of the standoffs. I tried to attach a picture to this message but it didn't work. I'll send the picture to you directly. Gary is on the list, he should be able to give better answers than I can.

Joe

--- On Wed, 7/8/09, vk5abc <vk5abc@...> wrote:

What is a uProcessor shield? do you have a picture?

Lee

--- In Racal6790GM@ yahoogroups. com, Joe Na <joe.na62@.. .> wrote:

>

>

> Hi Gary,

>

> I didn't know you were on this list but I should have expected it. I bought the 6790 from Greg Shepherd that you built for him (SN9999). I'm having a bit of trouble with a couple of the filters but other than that, that is one FINE radio! It has the ELF option, protected RF preamp, LEDs in display, uProcessor shield, RS-232 link, ALL the filters, etc. Everything but the ISB option.

>

> Joe

>

> --- On Tue, 7/7/09, gewingerd@.. . <gewingerd@. ..> wrote:

>

> > From: gewingerd@.. . <gewingerd@. ..>

> > Subject: Re: [Racal6790GM] My 6790/GM is broken!

> > To: Racal6790GM@ yahoogroups. com

> > Date: Tuesday, July 7, 2009, 12:20 PM

> > Jayme,

> >

> > Send it to me and I will fix it for you. I charge $35.00

> > an hour plus parts and shipping. I should be able to get it

> > running for less than $300.00 with shipping in the USA. I

> > ship US Mail Priority with Delivery Confirmation in a double

> > box to protect the unit.

> >

> > My address is;

> > Gary E. Wingerd

> > 9107 Jordan Rd.

> > Fairplay, MD 21733

> >

> > Thanks,

> > Gary

> >

> >

> >

> > ------------ --------- --------- ------

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> > Yahoo! Groups Links

> >

> >

> > mailto:Racal6790GM- fullfeatured@ yahoogroups. com

> >

> >

> >

>

1359. Re: [Racal6790GM] filters

Yahoo group: Racal6790GM
Date: 2009-07-08 15:42:44 UTC
From: Joe Na
Topic: 1353 Message: 1359

I think Gordon is right, We need to check the filters externally and see what's going on. ALL of the filters in my 6790 are exactly what's specified on Table 2-1 in the 6790 Technical Manual but at least one is WELL outside the +/- 25% range specified in the manual and a couple of others are marginal IMO. My biggest concern is my16.0 kHz filter (Racal Number 08415-10) which BIT reports as being 6.1 kHz! (yes 6.1) I have swapped all the filters into at least two other slots but BIT always reports the same value for each filter. BTW this is THE only 16.0 kHz specified for the 6790 so regardless of the issues with the group delay this is THE correct filter for that BW.

Regarding Forcing Filters. What's the point? It doesn't change how the radio works only the then reported value which we know to be wrong so what's the point in doing it?

Joe

--- On Tue, 7/7/09, Dan Rae <danrae@...> wrote:

From: Dan Rae <danrae@verizon.net>
Subject: Re: [Racal6790GM] filters
To: Racal6790GM@yahoogroups.com
Date: Tuesday, July 7, 2009, 8:34 PM

Gordon & Lois Duff wrote:

>

>

> Recent discussion about BITE, filter widths and forcing filter widths

> raises a question for me. BITE determines filter widths and displays

> them; the operator can force certain filters; and the filters have

> some width printed on their cases. Why would one assume that BITE was

> reporting is less accurate than the case marking? Maybe the case

> marking is no longer valid and BITE is on target. Has anyone measured

> filters external to the radio and compared the results to BITE and the

> case markings?

>

>

>

Gordon, as I thought I'd said it is mainly down to how the filters are

specified in the first place. If you look at the details listed in the manual you will see that some are specified for a certain group delay, and those have very wide skirts relative to the ones that have a good 6:60 dB ratio. In particular one filter, designed I think for the 6830 and specified as being 3 kHz wide, part number 1600121, a lot of which were sold on eBay, is nearer 6 or 7 kHz wide according to BITE and indeed sounds like it when used for AM, and thus is useless for ssb. The ones marked 3.24 kHz are the ones to look for for sideband, they have a very good shape factor. Likewise the nominal 5 kHz 1600122 is nearer 7 or 8 kHz. I think these were perhaps designed for a tightly specified group delay for HF / DF applications, but they do work for AM. I think Racal may have specified the width at the -1dB point in any case, not the more usual -3 or -6 dB. Also with a lot of the older radios, the specified filter widths were minimums and the measured widths are often wider. All those I have looked at with a network analyser have been, other things being equal, up to spec. In all cases the only ones that have been absolutely spot on as regards to width have been the sideband filters.

As I said, in the manual BITE is only claimed to be accurate to within 25% when it comes to filter widths.

Doing the forced filter entry is very easy, and takes less than a minute, just do it after you run BITE, if you must do that :^)

Dan

ac6ao / g3ncr

1360. Re: My 6790/GM is broken!

Yahoo group: Racal6790GM
Date: 2009-07-08 15:54:38 UTC
From: Antonio Iovane
Topic: 1348 Message: 1360

I saw pictures of the sister radio RA1792 fitted with the shield. Actually the shield reduces the noise coming from the processor board.
I've built one for my radio myself, it is quite easy.

When I first tested the radio after getting it working (I bought it faulty) I noticed a lot of spurious signals coming from I didn't know where. I was using a simple wire as an antenna, no coax cable. The spurious were much less present with a coax connected indoor ant. Testing here and there, I realized that the source was the processor board and the signal path was directly to the antenna.

Antonio I8IOV

--- In Racal6790GM@yahoogroups.com, Joe Na <joe.na62@...> wrote:
>
>
> I was told that it was a mod that was designed and built by Gary Winegard. It's supposed to block some of the RFI generated by the microprocessor and it's clock. The screws securing the CPU board are replaced with metal standoffs and a metal plate that covers the CPU board is secured to the top of the standoffs. I tried to attach a picture to this message but it didn't work. I'll send the picture to you directly. Gary is on the list, he should be able to give better answers than I can.
>
> Joe

1361. Re: [Racal6790GM] Re: My 6790/GM is broken!

Yahoo group: Racal6790GM
Date: 2009-07-08 19:35:20 UTC
From: Joe Na
Topic: 1348 Message: 1361

Along that same line; I was wondering if anyone here has been able to use the 6790 with a whip antenna. I've seen some for sale that claim to work well that way but the previous owner of this radio told me flat out that these wouldn't work with an indoor antenna because they pick up too much noise and that he could only only it with an outdoor antenna. Based on my experience with the RA-6790 I'd say that he's right.

--- On Wed, 7/8/09, Antonio wrote:

I saw pictures of the sister radio RA1792 fitted with the shield. Actually the shield reduces the noise coming from the processor board.

I've built one for my radio myself, it is quite easy.

When I first tested the radio after getting it working (I bought it faulty) I noticed a lot of spurious signals coming from I didn't know where. I was using a simple wire as an antenna, no coax cable. The spurious were much less present with a coax connected indoor ant. Testing here and there, I realized that the source was the processor board and the signal path was directly to the antenna.

Antonio I8IOV

--- In Racal6790GM@ yahoogroups. com, Joe Na <joe.na62@.. .> wrote:

>

>

> I was told that it was a mod that was designed and built by Gary Winegard. It's supposed to block some of the RFI generated by the microprocessor and it's clock. The screws securing the CPU board are replaced with metal standoffs and a metal plate that covers the CPU board is secured to the top of the standoffs. I tried to attach a picture to this message but it didn't work. I'll send the picture to you directly. Gary is on the list, he should be able to give better answers than I can.

>

> Joe

1362. Racal 6772 locking problem

Yahoo group: Racal6790GM
Date: 2009-07-17 17:59:25 UTC
From: pete gianakopoulos
Topic: 1362 Message: 1362

I hope this isn't off topic. I am repairing an RA-6772 for a friend of mine. The unit will not lock for the first 220kHz of each 1MHz tuning range. Above that frequency, it is fine. As an example, if I tune in any frequency between 1000kHz and 1220kHz the unit will not lock. Is there some sort of adjustment that can correct this problem. This unit came from a fellow in Canada.
The seller suggested that L20 on the HF loop board needed adjustment, but the original RF coil was replaced with a low Q 220uH fixed inductor.
I removed the inductor, just to see what would happen, and the whole tuning range fell out of lock. I replaced the inductor with a magnetically shielded 220uH inductor and the radio is working the way it was to begin with.
If anybody has any ideas, that would be great!

Regards,
Pete Gianakopoulos KE9OA

1363. Re: [Racal6790GM] Racal 6772 locking problem

Yahoo group: Racal6790GM
Date: 2009-07-17 19:20:54 UTC
From: Dan Rae
Topic: 1362 Message: 1363

pete gianakopoulos wrote:
> I hope this isn't off topic. I am repairing an RA-6772 for a friend of mine. The unit will not lock for the first 220kHz of each 1MHz tuning range. Above that frequency, it is fine.
> As an example, if I tune in any frequency between 1000kHz and 1220kHz the unit will not lock. Is there some sort of adjustment that can correct this problem. This unit came from a fellow in Canada.
> The seller suggested that L20 on the HF loop board needed adjustment, but the original RF coil was replaced with a low Q 220uH fixed inductor.
> I removed the inductor, just to see what would happen, and the whole tuning range fell out of lock. I replaced the inductor with a magnetically shielded 220uH inductor and the radio is working the way it was to begin with.
> If anybody has any ideas, that would be great!
>
L20 on the HF loop board should be adjusted for 8 Volts at TP14 (the varactor line). It is not that critical since the range is narrow.

It seems unlikely to me that the problem you describe is anywhere on the HF loop board. All the individual loops have out of lock lines that can be checked individually. If the problem occurs exactly at a particular frequency or frequencies, say every 10 kHz, then I would suspect a digital divider problem, if is not that exact then alignment should cure it. I would check the Transfer loop then the upper loop and so on. It is easy enough to check all the dividers to see if they are performing correctly.

If you can find the UK 1772 maintenance manual for download it has all the test point voltages in it with a lot of the alignment details missing from the US book. Most of the component designators are the same.

Good luck Pete,

Dan

ac6ao / g3ncr

1364. Re: Racal 6772 locking problem

Yahoo group: Racal6790GM
Date: 2009-07-18 00:02:23 UTC
From: pete gianakopoulos
Topic: 1362 Message: 1364

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> pete gianakopoulos wrote:
> > I hope this isn't off topic. I am repairing an RA-6772 for a friend of mine. The unit will not lock for the first 220kHz of each 1MHz tuning range. Above that frequency, it is fine.
> > As an example, if I tune in any frequency between 1000kHz and 1220kHz the unit will not lock. Is there some sort of adjustment that can correct this problem. This unit came from a fellow in Canada.
> > The seller suggested that L20 on the HF loop board needed adjustment, but the original RF coil was replaced with a low Q 220uH fixed inductor.
> > I removed the inductor, just to see what would happen, and the whole tuning range fell out of lock. I replaced the inductor with a magnetically shielded 220uH inductor and the radio is working the way it was to begin with.
> > If anybody has any ideas, that would be great!
> >
> L20 on the HF loop board should be adjusted for 8 Volts at TP14 (the
> varactor line). It is not that critical since the range is narrow.
>
> It seems unlikely to me that the problem you describe is anywhere on the
> HF loop board. All the individual loops have out of lock lines that can
> be checked individually. If the problem occurs exactly at a particular
> frequency or frequencies, say every 10 kHz, then I would suspect a
> digital divider problem, if is not that exact then alignment should cure
> it. I would check the Transfer loop then the upper loop and so on. It
> is easy enough to check all the dividers to see if they are performing
> correctly.
>
> If you can find the UK 1772 maintenance manual for download it has all
> the test point voltages in it with a lot of the alignment details
> missing from the US book. Most of the component designators are the same.
>
> Good luck Pete,
>
> Dan
>
> ac6ao / g3ncr

Thanks Dan,

I will try to locate it. I tried to find out the value of L20, but unfortunately, the manual only gives the Racal part number. I do have several variable inductors on hand, but I am not sure of the correct value. Thanks for the info!

Pete
>

1365. Re: Racal 6772 locking problem

Yahoo group: Racal6790GM
Date: 2009-07-23 21:55:57 UTC
From: davesc50
Topic: 1362 Message: 1365

Hi Pete,

The manual for the 1771 / 1772 can be found here;

http://bama.edebris.com/manuals/racal/ra1771_72/

I have just checked my original paper copy though and the parts list just lists the inductor as Racal coil assembly CT45446, and doesn't give it any value..
I have a load of Racal spares from that era though, so will take a look tomorow and see if I have one I can drop in the post to you.
You never know it might help.

Cheers,
Dave.S.

1366. 6790/GM Ribbon cable needed

Yahoo group: Racal6790GM
Date: 2009-07-31 12:17:30 UTC
From: benedictdoug
Topic: 1366 Message: 1366

I need ribbon cable W16P1 (A4J7) from the A4 module. Somebody hacked the one on my unit. Thanks.

1367. Would like to purchase A6A2 Board for Racal 6790

Yahoo group: Racal6790GM
Date: 2009-08-15 15:36:38 UTC
From: jeffbauman
Topic: 1367 Message: 1367

Anybody have an extra?

Please reply offline to w8kzw at arrl dot net

Thanks!

1368. Plug for RS232 Interface and Desktop case

Yahoo group: Racal6790GM
Date: 2009-08-19 03:36:24 UTC
From: Saad Mahaini
Topic: 1353 Message: 1368

Hello,

Does anyone know the part # and a source for the circular MS connector to access the RS232 interface?

Also, anyone with a desktop case for this radio that like to sell?

73 Saad N5FF

1369. Plug for RS232 Interface and Desktop case

Yahoo group: Racal6790GM
Date: 2009-08-19 03:49:29 UTC
From: Saad Mahaini
Topic: 1353 Message: 1369

Hello,

Does anyone know the part # and a source for the circular MS connector to access the RS232 interface?

Also, anyone with a desktop case for this radio that like to sell?

73 Saad N5FF

1370. Re: [Racal6790GM] Plug for RS232 Interface and Desktop case

Yahoo group: Racal6790GM
Date: 2009-08-19 09:14:01 UTC
From: gewingerd@netzero.com
Topic: 1353 Message: 1370

Saad,

MS3476L16-26S (Connector) and MS3417-16N (Back Shell)
Newark electronics did have them at one time, don't know about now.
Thanks,
Gary E. Wingerd

1371. Re: [Racal6790GM] Plug for RS232 Interface and Desktop case

Yahoo group: Racal6790GM
Date: 2009-08-19 13:05:37 UTC
From: Joe Na
Topic: 1353 Message: 1371

Saad,

I see Gary already posted the PNs so I won't repeat them but I will tell you that you can frequently find the connector on E-bay for a better price than buying it new (~$100). I think the last time I looked I saw one (brand new) for $40. I got lucky and found one in a surplus store (SkyCraft in Orlando) for $3! I used that and one half of a LapLink cable ($1) and I new have a serial cable with both the 9 and 25 pin RS-232 connectors for a whopping $4!

Gary used to sell the complete cable on E-bay for about $90 or $100 with both connectors installed and ready to go. He may still have some available.

Joe

--- On Wed, 8/19/09, Saad Mahaini <n5ff@...> wrote:

> From: Saad Mahaini <n5ff@...>
> Subject: [Racal6790GM] Plug for RS232 Interface and Desktop case
> To: Racal6790GM@yahoogroups.com
> Date: Wednesday, August 19, 2009, 3:49 AM
>
> Hello,
>
> Does anyone know the part # and a source for the circular
> MS connector to
> access the RS232 interface?
>
> Also, anyone with a desktop case for this radio that like
> to sell?
>
> 73 Saad N5FF
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:Racal6790GM-fullfeatured@yahoogroups.com
>
>
>

1372. Re: Plug for RS232 Interface and Desktop case

Yahoo group: Racal6790GM
Date: 2009-08-19 15:56:25 UTC
From: bharper_wv
Topic: 1353 Message: 1372

dfsales.com has the plug for $28.75 and the cover for $8.38, that is probably about as good as you will do....

Brian AF8i

1373. Re: [Racal6790GM] Re: Plug for RS232 Interface and Desktop case

Yahoo group: Racal6790GM
Date: 2009-08-19 16:30:30 UTC
From: casy_ch@tbwil.ch
Topic: 1353 Message: 1373

Brian

Could you precise what keyword should be used to find them in their parts wizard. Thank you.

Jean-Claude, Switzerland
HE9SRI

----- Original Message -----
From: bharper_wv
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, August 19, 2009 5:56 PM
Subject: [Racal6790GM] Re: Plug for RS232 Interface and Desktop case

dfsales.com has the plug for $28.75 and the cover for $8.38, that is probably about as good as you will do....

Brian AF8i

1374. Re: Plug for RS232 Interface and Desktop case

Yahoo group: Racal6790GM
Date: 2009-08-20 14:40:38 UTC
From: bharper_wv
Topic: 1353 Message: 1374

I just used the part numbers that Gary supplied above....

Brian AF8i

1375. Re: [Racal6790GM] Re: Plug for RS232 Interface and Desktop case

Yahoo group: Racal6790GM
Date: 2009-08-20 16:02:58 UTC
From: casy_ch@tbwil.ch
Topic: 1353 Message: 1375

Thank you Brian.

In the meantime I found out that it belongsto an Amphenol military series and have downloaded the leaflet.

Jean-Claude, HE9SRI

----- Original Message -----
From: bharper_wv
To: Racal6790GM@yahoogroups.com
Sent: Thursday, August 20, 2009 4:40 PM
Subject: [Racal6790GM] Re: Plug for RS232 Interface and Desktop case

I just used the part numbers that Gary supplied above....

Brian AF8i

1376. Nerwbe display

Yahoo group: Racal6790GM
Date: 2009-08-21 23:30:28 UTC
From: w5dtw
Topic: 1376 Message: 1376

Hello all, my name is Craig Tull (W5DTW) and I collect,repair,operate and sometimes cus at allot of boat anchors around my shack.
Collins,Eldico,Harris,Central Electronics and Hammarlund are common names around here, until recently the only commonly used solid state item in the shack was a Drake MSR-2 receiver, now I have a couple complete and a couple parts RA-6790GM radios, one 6790 works "reasonably" well with some sensitivity and noise issues, the other rig has some osc,issues.
What I need now is some advice about changing the frequency display. I have one front panel that has the LEDs everything is fine but the freq. display is bleeding badly. I have another panel that has a good freq. display but a bad mode display, has anyone tried to pull and install a LCD display, it looks like it would be easy to damage it.
Thanks
Craig

1377. Re: [Racal6790GM] Nerwbe display

Yahoo group: Racal6790GM
Date: 2009-08-22 02:29:19 UTC
From: gewingerd@netzero.com
Topic: 1376 Message: 1377

Craig,

Replacement of the Mode and Function LCD’s

1. Remove the 4 screws holding the Front Panel to the Receiver and place them aside.

2. Unplug the 4 Ribbon cables on the back of the Front Panel and remove the Ribbon cable plug from the A6A2 Micro Processor Assembly.

3. Unplug the connector plug into the A10 Power Supply Assembly.

4. Remove the screw holding the Tuning Knob on, this screw should have a lock and flat washer on it. Remove the Disc and under it should be a crinkle washer, placed them aside. Remove the Tuning Knob and Shaft and place them aside.

5. Remove the large nut on the Tuning Spacer, that holds the A9 Board to the Spacer. There should be a large flat and nylon washer under the large nut.

6. Remove the #4 screws holding the A9 Board to the Front Panel. All of the screws should have lock and flat washers.

7. Unplug the Keypads from the A9 Board and fold the A9 Board away from the Front Panel.

8. To remove the LCD’s you will need something like a 1" paint brush with a wooden handle (this should not break the LCD’s as you remove them). Slide the wooden part of the handle under the LCD’s slowly and with an upward motion remove the displays.

9. Note the orientation of the Displays (Dots on End of Display should be on the left side as you are looking at it.) and install them back into the Sockets of the A9 Board.

10. Plug the Keypads back into the A9 Board and reinstall all of the #4 screws, flat and lock washers.

11. Reinstall the large washers and large nut on the Tuning Spacer and tighten(DO NOT OVER TIGHTEN THIS NUT, IT WILL BIND THE TUNING KNOB AND NOT ALLOW FREE MOVEMENT), reinstall the Tuning knob and Shaft, place the crinkle washer & Tuning Disc (Disc has a double D cut in it that will align to the Tuning Shaft) onto the Tuning Shaft. Place the washers and the screw back into the Tuning Shaft and Disc.

12. Reinstall the Front Panel Assembly back onto the receiver, install the 4 screws holding the Front Panel to the Receiver, plug all the cables back into the Front Panel and plug the connector back into the A10 Power Supply.

Gary E. Wingerd
9107 Jordan Rd.
Fairplay, MD. 21733
gewingerd@...

I sell new displays for $55.00 each plus shipping.

Thanks,
Gary

1378. New Racal Control Software (WS 4.2)

Yahoo group: Racal6790GM
Date: 2009-08-31 22:14:32 UTC
From: dxtrainc
Topic: 1378 Message: 1378

Just wanted to let the group know I have WorldStationTM 4.2 up and running on my refurbed 6790. I'm also running Dxtra's upcoming high-fidelity SDR (software defined radio) off of the IF port of the radio, with excellent results.

Other high-end radios in my collection are the Ten-Tec RX-331 and the TCI/BR 8174. I also bought a second 6790 as I am greatly impressed by this fine radio.

WS 4.2 can control multiple 6790's at once (or a combination of other radios), and has a software matrix swtich to link VFOs' etc. built in. It is networked out of the box, allowing easy internet remote control of you radio.

Gary did a terrific job in refurbing the unit and making the serial cable and pointing me to the command documentation.

I'm going to spend a week or so testing and tweaking the user interface to make operation of the radio as smooth as possible.

As a software developer, the two main things I look for in a radio's command set is the ability of the serial port to deal with rapid frequency changes and ability to return signal strength consistently.

So far the Racal is bullet-proof here as you would expect from a radio of this caliber.

I plan to release the Racal driver in September. I'll post a note here when the software is available.

One 6790 customization I did this morning was to dynamically get the filter bandwidths from the radio sent over to the client from the server at startup. Each radio as I understand it, can have many different filter combinations installed. WS 4.2 has a client server architecture.

I will continue to blog about the 6790 driver / radio at my Yahoo group:

http://tech.groups.yahoo.com/group/worldstation/

WS 4.2 was extensively reviewed in "Monitoring Times" in the June and July 2008 issues of the magazine (pages 72-73).

I'm including those pdf links here for anyone interested:

http://dxtra.com/0608mtjune08_hires.pdf

http://dxtra.com/0708mtjuly08_hires.pdf

Bob Griffin
www.dxtra.com

1379. Display problem

Yahoo group: Racal6790GM
Date: 2009-09-09 00:47:48 UTC
From: bobbetts06
Topic: 1379 Message: 1379

Hello Group:
Recently, my 6790's frequency display flickers to all "8" characters including the BFO frequency (which should be off in AM mode). This happens in any mode, filter, AGC, etc. The radio passes BITE and there is no discernable loss of signal or audio. Sometimes re-entering the frequency will bring it back to normal, but not always. The condition likes to flicker between true frequency and the all-8's condition.
I won't be able to put it on the bench until this weekend, but am suspecting a power supply problem.
Does anyone have any other ideas...places to look, before I get too deep into a radio that I'm not terribly familiar with?
Gary, and thoughts?

Thank you in advance,

Bob, N1KPR

1380. Re: [Racal6790GM] Display problem

Yahoo group: Racal6790GM
Date: 2009-09-09 09:08:33 UTC
From: gewingerd@netzero.com
Topic: 1379 Message: 1380

Bob,

Sounds like you are loosing a power supply, I suspect the -15 vdc . It should be a bad cap on one of the IF Cards. The 8's are displayed due to the A6A2 CPU loosing it's mind.
The other thing to check is the battery on the A6A2 card, that should be changed every 5 years so it does not leak onto the card.

Thanks,
Gary

1381. Re: [Racal6790GM] Display problem

Yahoo group: Racal6790GM
Date: 2009-09-09 13:42:57 UTC
From: Bob Betts
Topic: 1379 Message: 1381

Thanks Gary;
The battery is 6 months old, so I'll begin with checking the caps associated with the -15 supply and take it from there, if necessary.
I'll keep the group posted.
Thanks again,
Bob, N1KPR

http://www.bobsamerica.com

--- On Wed, 9/9/09, gewingerd@... <gewingerd@...> wrote:

From: gewingerd@... <gewingerd@...>
Subject: Re: [Racal6790GM] Display problem
To: Racal6790GM@yahoogroups.com
Date: Wednesday, September 9, 2009, 5:08 AM

Bob,

Sounds like you are loosing a power supply, I suspect the -15 vdc . It should be a bad cap on one of the IF Cards. The 8's are displayed due to the A6A2 CPU loosing it's mind.
The other thing to check is the battery on the A6A2 card, that should be changed every 5 years so it does not leak onto the card.

Thanks,
Gary

Yahoo! Groups Links

1382. Re: [Racal6790GM] Display problem

Yahoo group: Racal6790GM
Date: 2009-09-13 00:27:13 UTC
From: Bob Betts
Topic: 1379 Message: 1382

Hi Gary and All:
Well, I never got to fix it. I opened the radio and removed all the sub-covers and started to take some measurements. The power supply seemed okay, but while I was waiting for the intermittent display flicker to begin, I reset all the internal coax and ribbon connectors -- unplug and replug a few times. I also tightened up some of the PC Bud mounting screws...just in case.
Here's the problem: The problem seems to have gone away...at least for now. I hate that. It's working fine for the past 6 hours and I didn't learn anything. I guess that's a blessing in disguise - if it keeps working. Just wondering if anyone has had those symptoms and had them go away just from cleaning the connectors and generally poking around?
Well, while i was at it, I forced a BITE test and realized my 3.2K (symmetrical) filter wasn't being recognized. It's a blue Collins mechanical. I opened that up, inspected the hair-like connections, reassembled it and guess what -- BITE found it.
Is this my lucky day, or should I be worried about too much karma. Maybe one of the in laws is gonna move in.
Anyhow, I just wanted to share a very strange day on the test bench and see if anyone else sees any familiarity in my experiences.
Good signals to all,

Bob, N1KPR

PS: BTW, Gary, your kit LED display lighting on my 6790 (I installed last year) seems visually superior (easy on the eyes) to that from a factory lamp model. I had a chance to compare them a couple weeks ago. Thanks for the kit, it really makes using the radio a pleasure - especially knowing that no more tungsten is gonna burn out.
bb

http://www.bobsamerica.com
Music, Audio, Radio
"It's all good."

--- On Wed, 9/9/09, Bob Betts <rwbetts@...> wrote:

From: Bob Betts <rwbetts@...>
Subject: Re: [Racal6790GM] Display problem
To: Racal6790GM@yahoogroups.com
Date: Wednesday, September 9, 2009, 9:42 AM

Thanks Gary;
The battery is 6 months old, so I'll begin with checking the caps associated with the -15 supply and take it from there, if necessary.
I'll keep the group posted.
Thanks again,
Bob, N1KPR

1383. Re: Display problem

Yahoo group: Racal6790GM
Date: 2009-09-15 12:30:36 UTC
From: annie_gosple
Topic: 1379 Message: 1383

Hi All.

About 18 months ago my 6790GM started playing up.

After 10 to 20 minutes the display would go haywire, often display all zeros, the mode display would alternate captions like a slot machine and then everything would freeze, sometimes the fault light would come on.
Once the set had "cooled down" switching on would result in BITE running, then after a few minutes it would go haywire again.

I took the covers off to check voltages but did not find any lines that were down and due to lack of time, gave up.

A few days ago I decided to have another look.
I removed all idc connectors from the individual modules and also the two block connectors on the A2 and A3 modules

I powered the set up and let run for 45 minutes in this state.
I had no display hang-ups.

In turn I connected and then disconnected individually each board and let run for 45 minutes to see if this would bring anything down.
It was not until I re connected the last module, the A3 board, and switched on that I got anything, the set immediately run through BITE on power on.

After this the set just sat there again for an hour or so and never re set.

I re connected all modules applying a small amount of switch cleaner to each block and for the last two days the set has been sitting quite happily monitoring various volmets from around the world.

So fingers crossed a dirty connector ?
If so how did it bring the processor down?

Nick.

--- In Racal6790GM@yahoogroups.com, Bob Betts <rwbetts@...> wrote:
>
> Hi Gary and All:
> Well, I never got to fix it. I opened the radio and removed all the sub-covers and started to take some measurements. The power supply seemed okay, but while I was waiting for the intermittent display flicker to begin, I reset all the internal coax and ribbon connectors -- unplug and replug a few times. I also tightened up some of the PC Bud mounting screws...just in case.
> Here's the problem: The problem seems to have gone away...at least for now. I hate that. It's working fine for the past 6 hours and I didn't learn anything. I guess that's a blessing in disguise - if it keeps working. Just wondering if anyone has had those symptoms and had them go away just from cleaning the connectors and generally poking around?

> Well, while i was at it, I forced a BITE test and realized my 3.2K (symmetrical) filter wasn't being recognized. It's a blue Collins mechanical. I opened that up, inspected the hair-like connections, reassembled it and guess what -- BITE found it.
> Is this my lucky day, or should I be worried about too much karma. Maybe one of the in laws is gonna move in.
> Anyhow, I just wanted to share a very strange day on the test bench and see if anyone else sees any familiarity in my experiences.
> Good signals to all,
>
> Bob, N1KPR
>
> PS: BTW, Gary, your kit LED display lighting on my 6790 (I installed last year) seems visually superior (easy on the eyes) to that from a factory lamp model. I had a chance to compare them a couple weeks ago. Thanks for the kit, it really makes using the radio a pleasure - especially knowing that no more tungsten is gonna burn out.
> bb
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>
> http://www.bobsamerica.com
> Music, Audio, Radio
> "It's all good."
>
> --- On Wed, 9/9/09, Bob Betts <rwbetts@...> wrote:
>
>
> From: Bob Betts <rwbetts@...>
> Subject: Re: [Racal6790GM] Display problem
> To: Racal6790GM@yahoogroups.com
> Date: Wednesday, September 9, 2009, 9:42 AM
>
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>
> Thanks Gary;
> The battery is 6 months old, so I'll begin with checking the caps associated with the -15 supply and take it from there, if necessary.
> I'll keep the group posted.
> Thanks again,
> Bob, N1KPR
>
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>

1384. Re: Display problem

Yahoo group: Racal6790GM
Date: 2009-09-16 13:50:14 UTC
From: bharper_wv
Topic: 1379 Message: 1384

do you have the covers back on the radio?

if not, these old tantalum caps do become
temperature sensitive timebombs.

1385. Re: Display problem

Yahoo group: Racal6790GM
Date: 2009-09-19 10:35:56 UTC
From: annie_gosple
Topic: 1379 Message: 1385

Pretty certain it's not tant's this time, been working ok for days now, whereas before I looked at it, 20 minutes tops before it crashed.

I have replaced five of these wretched caps in various stages of the radio since I've had it.(3 years)

If more do go perhaps I'll re cap the whole thing.

Nick

--- In Racal6790GM@yahoogroups.com, "bharper_wv" <brian.harper@...> wrote:
>
> do you have the covers back on the radio?
>
> if not, these old tantalum caps do become
> temperature sensitive timebombs.
>

1386. Follow-Up to Sweeper-Beeper Article: an outboard T/R switch to protect CW Skimmer dedicated SDR

Yahoo group: Racal6790GM
Date: 2009-09-19 18:51:29 UTC
From: H Lawrence Serra
Topic: 1386 Message: 1386
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Rick-

As a follow-up to my Sweeper-Beeper article about a dedicated system for the CW Skimmer, I have switched over to an SDR broadband receiver (SDR-IQ). I run it off one of my roof ANTs, which are close together, so I felt I needed some T/R protection for the SDR's ANT input when my xcvrs were key-down with 550W transmitting into ANTs close-by the SDR's ANT.

Attached is the schematic for a free-standing ANT T/R switch with an adjutable hang-time, to avoid fast relay operation during contest fast QSK keying. The ANT T/R switch removes the ANT from the SDR at the first key-down dit from either transciver by employing the normally-open relay contacts on the transceivers to ground the T/R switch's input jack. The T/R switch stays open and is re-triggered with every transmitted character from the transceiver, then remains open for the adjustable hang-time delay after the last character is sent. I find this adjustable delay useful, and set it to keep the Skimmer ANT disconnected for the normal length of my contest exchange, or S&P call, without unnecessarily overworking the circuit's relay, having found earlier that the relays cannot ever keep up with fast QSK keying.

Anyway, with two pairs of cross-polarized 1N914 diodes across the ANT input to the SDR, and a #49 panel lamp bulb in series with the ANT line, this T/R switch gives me all the protection I need for the SDR. It should work as a T/R switch for any other sensitive gear a ham wants to protect on key-down when his ANTs are close together.

I had Gary Wingerd (Racal repair guru,<gewingerd@...>) design and build this one for me (and Gary gives permission to publish his schematic), but I'm sure handy hams can build it inside an outdoor aluminum electrical box.

73, Larry Serra N6NC

1387. 1772 Escutcheon

Yahoo group: Racal6790GM
Date: 2009-09-27 22:36:44 UTC
From: Tom B
Topic: 1387 Message: 1387

Hello All,

I seem to have a bunch of new escutcheons that cover frequency readout
of the RA1772 British version. If anyone needs a few please contact me
off list.
These are not the same as the American RA6772.

Tom Bryan
N3AJA

1388. Racal6790GM-Unsubscribe@yahoogroups.com

Yahoo group: Racal6790GM
Date: 2009-09-27 23:48:40 UTC
From: Doug
Topic: 1388 Message: 1388

[Body unavailable in the source archive]

1389. Re: Racal6790GM-Unsubscribe@yahoogroups.com

Yahoo group: Racal6790GM
Date: 2009-09-29 20:04:35 UTC
From: daddynunes
Topic: 1388 Message: 1389

Sorry to see you leaving the group Doug.
I am enjoying the 6970 I got from you.
Gary did a terrific job on it. I truly like the RF preamp LPF module.
I also have another 6790 I got from Gary, not sure which one
I like better!

Steve in Carver, MA

1390. Matching Paint Color For 6790 Front Panel?

Yahoo group: Racal6790GM
Date: 2009-09-29 23:55:42 UTC
From: toddroberts2001@aol.com
Topic: 1390 Message: 1390

Hi All,
I was wondering if anyone might know of a matching paint number or brand of gray paint that would match the light gray paint color of the 6790 front panel? I am looking for something I can use to touch up some small scratches and/or the usual small scuffs these receivers seem to suffer over the years.

I would prefer something in a spray can to avoid brush marks, but would accept paint in a can if that was all that was available. Any color close to matching in those automotive touch-up spray cans? Also can anyone recommend which might be better to use, enamel or acrylic?

As best I can tell the light gray color on the front panel seems to have a very light greenish tint to it and is a satin finish? The place near me that can match paint colors needs a very small size of the sample to match the color. I couldn't bring the whole front panel to them.

Thanks for any help. 73 Todd WD4NGG

1391. Hello

Yahoo group: Racal6790GM
Date: 2009-10-02 00:47:16 UTC
From: vr2xmq
Topic: 1391 Message: 1391

Hi,

I have just joined the group. At present I do not own a Racal 6790GM but I have wanted to get either the 6790GM or the Hegenuk RX1001 for sometime and the 6790GM would be my 1st choice.

However these seem difficult to find on the market although there is one on ebay, I do not wish to take my chances with that vendor since I have read some unpleasant comments before from other buyers?

Does anyone have a list of vendors who specialize in these sets, so I may keep a look out for one should it pop up in the future.

Presently using a Rockwell Collins KWM-380, JRC NRD-515 + NDH-518, a Kenwood R-820 plus some other receivers. Do not have a premium grade receiver yet and the first choice would be the 6790GM and the Hagenuk RX1001.

A bit difficult to find such equipment locally as none are available and all my equipment is imported. My grid locator is OL72cm.

73 Steve, VR2XMQ

1392. Re: [Racal6790GM] Hello

Yahoo group: Racal6790GM
Date: 2009-10-02 03:00:51 UTC
From: mparkinson1
Topic: 1391 Message: 1392

As luck would have it I have one for sale email me at mparkinson1@....com if your interested.
This receiver 6790GM has just been fully aligned and repaired to factory specs.

Matt Parkinson Military Equipment & R 390A Depot Center

1393. Re: [Racal6790GM] Hello

Yahoo group: Racal6790GM
Date: 2009-10-03 16:27:02 UTC
From: oscar873@aol.com
Topic: 1391 Message: 1393

what r u asking?

1394. Racal MA7917B HF SSB/ISB Exciter Tecnical book ??

Yahoo group: Racal6790GM
Date: 2009-10-03 20:55:16 UTC
From: graham787
Topic: 1394 Message: 1394

Bit of a long shot , but has anyone the technical book for one of these : Racal MA7917B HF SSB/ISB Exciter ??

tnx - Graham

1395. Re: Matching Paint Color For 6790 Front Panel?

Yahoo group: Racal6790GM
Date: 2009-10-03 21:10:52 UTC
From: graham787
Topic: 1390 Message: 1395

--- In Racal6790GM@yahoogroups.com, toddroberts2001@... wrote:
>
> Hi All,
> I was wondering if anyone might know of a matching paint
> number or brand of gray paint that would match the light gray paint
> color of the 6790 front panel? I am looking for something I can
> use to touch up some small scratches and/or the usual small
> scuffs these receivers seem to suffer over the years.
>
> I would prefer something in a spray can to avoid brush
> marks, but would accept paint in a can if that was all
> that was available. Any color close to matching in those
> automotive touch-up spray cans? Also can anyone recommend
> which might be better to use, enamel or acrylic?
>
> As best I can tell the light gray color on the front panel
> seems to have a very light greenish tint to it and is a satin finish?
> The place near me that can match paint colors needs a very small
> size of the sample to match the color. I couldn't bring the whole
> front panel to them.
>
> Thanks for any help. 73 Todd WD4NGG

If it is the same as the UK equipment It may be this ??

http://www.stephen.hull.btinternet.co.uk/bs381c.html

697 Light Admiralty Grey

G ..

>

1396. Re: [Racal6790GM] Hello

Yahoo group: Racal6790GM
Date: 2009-10-05 14:13:39 UTC
From: oscar873@aol.com
Topic: 1391 Message: 1396

Matt, do u have any displays for the 862X ? I need 2.
Or the digi key part #.
Also do u have any hand off radios left?
Al

-----Original Message-----
From: mparkinson1 <mparkinson1@...>
To: Racal6790GM@yahoogroups.com
Sent: Thu, Oct 1, 2009 8:00 pm
Subject: Re: [Racal6790GM] Hello

As luck would have it I have one for sale email me at
mparkinson1@....com if your interested.

This receiver 6790GM has just been fully aligned and repaired to
factory specs.

Matt Parkinson Military Equipment & R 390A Depot Center

1397. Re: [Racal6790GM] Hello

Yahoo group: Racal6790GM
Date: 2009-10-05 15:05:06 UTC
From: mparkinson1
Topic: 1391 Message: 1397

Oscar
I will have to look for the part number for the digi key.
I use 2 types a green display or blue display.
also I think I have a couple of hand off left.
I will have to look.
Matt Parkinson Military Equipment & R 390A Depot Center

1398. Using MA1101 preselector with RA1792

Yahoo group: Racal6790GM
Date: 2009-10-15 14:53:58 UTC
From: michts200
Topic: 1398 Message: 1398

Hi,

Got pointed in the direction of this group while asking for help with this.

Anyone here know anything about the Racal preselector MA1101? As I can't find anything I was told it could be used with the RA-1792.

It has a 37 way d connector at the back which I assume is for the control data?
Also of course Ant in/out and local oscillator in/out not sure why this is also needed? As well as mains power in.

I have a RA-1792 with a score card, though not sure what is the correct type of interface needed? or if a special version of software has to be fitted to the radio too. Or if it can read the data from any RA-1792

I am after any info I can get on the MA1101 or the necessary connections required to the receiver.

Thanks.
Michelle

1399. RE: [Racal6790GM] Using MA1101 preselector with RA1792

Yahoo group: Racal6790GM
Date: 2009-10-15 15:05:06 UTC
From: Carcia, Francis A HS
Topic: 1398 Message: 1399

I have the dual unit used in the RA6830 DF system. There are 13 BP filters and a low gain amplifier with a couple 20 dB pads that can be switched in. Filters are selected with 4 bit binary by grounding control leads. 2 more lines to select the 20 dB pads. LO input may be for LO distribution in a dF system. The only 6830 that will drive it is one with DF software. I sure would like to find the software that interfaces it to the base band board in a normal RX. I bet Gary has some data on that unit. Frank WA1GFZ.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of michts200
Sent: Thursday, October 15, 2009 10:54 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Using MA1101 preselector with RA1792

Hi,

Got pointed in the direction of this group while asking for help with this.

Anyone here know anything about the Racal preselector MA1101? As I can't find anything I was told it could be used with the RA-1792.

It has a 37 way d connector at the back which I assume is for the control data?
Also of course Ant in/out and local oscillator in/out not sure why this is also needed? As well as mains power in.

I have a RA-1792 with a score card, though not sure what is the correct type of interface needed? or if a special version of software has to be fitted to the radio too. Or if it can read the data from any RA-1792

I am after any info I can get on the MA1101 or the necessary connections required to the receiver.

Thanks.
Michelle

1400. Re: [Racal6790GM] Using MA1101 preselector with RA1792

Yahoo group: Racal6790GM
Date: 2009-10-15 15:30:42 UTC
From: Dan Rae
Topic: 1398 Message: 1400

michts200 wrote:
> Anyone here know anything about the Racal preselector MA1101? As I can't find anything I was told it could be used with the RA-1792.
>
> It has a 37 way d connector at the back which I assume is for the control data?
> Also of course Ant in/out and local oscillator in/out not sure why this is also needed? As well as mains power in.
>
The automatic preselector for the 1792 used the LO input to determine the tuning frequency of the 1792 and thus controlled the preselector. Of course not all 1792s have the First LO output connector fitted, but the SMB connector should be fitted to the synth board, so it is just a question of running a coax from that to the hole at the back where the LO output BNC goes.

It will not need any special firmware fitted; I have a list of 200+ 1792 firmware versions and none mention the preselector. A lot of other things, some a mystery, but not that.

It is very different from any of the versions used in the US HF/DF systems by the way.

It probably will be possible to control it with the SCORE data, given that you can slave a second receiver that way for diversity use, I'm sure it will drive the preselector without having the LO input.

Try the LO connection on it's own first, that should work. Failing that, the SCORE connections are in the 1792 manual. I could scan that stuff if you need it.

Dan

ac6ao / g3ncr

1401. Re: [Racal6790GM] Using MA1101 preselector with RA1792

Yahoo group: Racal6790GM
Date: 2009-10-15 18:51:55 UTC
From: gewingerd@netzero.net
Topic: 1398 Message: 1401
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1402. Re: Using MA1101 preselector with RA1792

Yahoo group: Racal6790GM
Date: 2009-10-15 21:56:06 UTC
From: michts200
Topic: 1398 Message: 1402

Hi Gary,

A copy of the manual would be fantastic, I did plug it in today lot's of strange sounds coming from it, Had a peek inside the covers large 8 way motorised variable capacitors, and several cards with logic chips, even an extender card included for testing.

Still not sure if it's all working correctly at this stage, tried feeding it from the local osc o/p as Dan suggested, seemed a bit erratic but definitely trying to do something as sometimes the capacitors would rotate and sometimes not.

Is it the service manual you have Gary? As it looks awfully complex if's it's in need of readjustment.

I'll wait until I have more time, and with the manual before I try further testing.

Thanks.
Michelle.

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Michelle,
>
> I may have a manual in the shop with all the info, give me a day or so and I will post the info.
>
> Thanks,
> Gary
>

1403. Re: [Racal6790GM] Re: Using MA1101 preselector with RA1792

Yahoo group: Racal6790GM
Date: 2009-10-15 23:03:49 UTC
From: Dan Rae
Topic: 1398 Message: 1403

michts200 wrote:
> Hi Gary,
>
>

> , tried feeding it from the local osc o/p as Dan suggested, seemed a bit erratic but definitely trying to do something as sometimes the capacitors would rotate and sometimes not.
>
If it's auto tune, it will only do anything when you change frequency by more than a certain amount. Think about it. Load up a few different frequencies in memories and see if they make it change. If you connect it in front of the receiver it's pretty easy to see if it's tuning or not. From what I remember it has a low pass filter for the lower frequencies and only actually tunes above about 1.6 MHz.

Of course if Gary /can/ produce a manual then all your questions will be answered... This is UK kit and there are more than a few UK members of the Premium Rx group who might be more familiar with it. That might be a better place to try.

Dan

1404. Re: [Racal6790GM] Using MA1101 preselector with RA1792

Yahoo group: Racal6790GM
Date: 2009-10-17 04:53:12 UTC
From: gewingerd@netzero.com
Topic: 1398 Message: 1404
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1405. Schroff Cabinet

Yahoo group: Racal6790GM
Date: 2009-10-20 00:35:58 UTC
From: whamlog
Topic: 1405 Message: 1405

Looking for one of this item, or similar, with hardware for my 6790/GM. Please email me off the list stating condition, price and shipping cost to ZIP Code 14225. Thanks.

1406. Hi Everyone, 6790GM Woes

Yahoo group: Racal6790GM
Date: 2009-10-20 08:33:13 UTC
From: g4miu
Topic: 1406 Message: 1406

Hi All.

Just found the group, Google is a wonderful thing.

A few days ago, after switching my 6790GM on, it went straight into BITE.

Then, through the top cover I could see cap C119 burst , quite spectacularly, into flame.
I removed the A4 card and replaced C119, connected the board back in , secured by a couple of screws, and switched on, the set automatically ran BITE and came up with Error 04 indicating a fault on the A8 card.

Substituting the board proved this was the case and eventually the problem was traced to a defective U15 on A8 which was pulling the clock line down.
I replaced the U15, put everything back together and, great, problem solved.

But.....I then re tightened the remaining screws on the A4 board, switched on, there was a crackle from the speaker, and then silence.

Now I get BITE Errors, in this order 15,16,11,08,12.
Disconnection of the A4 board 15, 09, 32, 33, 34, 35, 37
There is no audio during BITE

All functions on the key pads work, frequency, mode, etc except that I cannot select any filters other than LSB&USB,these two filters seem to switch in correctly as monitored by checking the voltages on the diodes.
1.0.L is displayed for the filter bandwidth.
There is very low level background hiss on AM and FM, nothing on SSB.

There is no IF output from the A3 board to the A4.
"RF" wise the set looks dead.

Selecting AF on the meter gives full scale.

I feel that this is more of a 'logic' problem than a 'signal' problem, if you see what I mean.

Until a few weeks ago the set had not been used for some considerable time, I have checked the voltage lines, and all seems ok there.

I will have a look through the files section but in the meantime any suggestions would be gratefully accepted.!

Thanks a lot.

Keith

G4MIU

1407. Re: [Racal6790GM] Hi Everyone, 6790GM Woes

Yahoo group: Racal6790GM
Date: 2009-10-20 09:26:49 UTC
From: gewingerd@netzero.com
Topic: 1406 Message: 1407
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1408. Re: [Racal6790GM] Hi Everyone, 6790GM Woes [1 Attachment]

Yahoo group: Racal6790GM
Date: 2009-10-20 10:10:04 UTC
From: Keith
Topic: 1408 Message: 1408

Hi Gary.

Thanks for the prompt answer.

I've done as you suggested.
The filters are now switching as monitored by the voltages on the diodes and the bandwidth display changes as it should.
However there is no change in the background hiss on AM when the filters (.4 , 1.2 , 6.0, 8.0 kHz) are stepped through.

Perhaps I was not clear, the BITE only ran on switch on when the cap failed, probably brought a line down, and then ran when I subsequently switched on after the replacement of the failed cap.
It does not run on switch on now.

I can leave the set for a number of days when I go back to it the settings are still there.
Battery voltage measures a fraction over 2.4V with the set off.

Occasionally, in the past, I have had the A6 hang up but re-seating the EPROM'S seems to cure this.

I have read through your fault finding info in the files section and a problem with U21 on the A4 seems to give similar symptoms to mine.
a quick check seems to show pulses going into U21 but nothing coming out on Pin 1.
I've replaced U21 with a device culled from a spare working RA1792 A4 board but no change.

Thanks.

Keith.

----- Original Message -----
From: gewingerd@...
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, October 20, 2009 10:26 AM
Subject: Re: [Racal6790GM] Hi Everyone, 6790GM Woes [1 Attachment]

[Attachment(s) from gewingerd@... included below]

Keith,

Recheck the connections (no pinched wiring), then try the forced filter procedure to get the filters installed this should help the troubleshooting. The battery is dead on the A6A2 card or you may have other problems with the A6A2 card if the BITE is starting each time the receiver is turned on.

R-2174 FORCED FILTER OPERATION
1. ENTER FORCED FILTER MODE BY PRESSING (AND HOLDING) THE LOCK KEYSWITCH , THEN MOMENTARILY PRESS THE ISB U/L KEYSWITCH. RELEASE BOTH. (THE AUX INDICATOR SHOULD ILLUMINATE ON THE

AUXILIARY DISPLAY INDICATING FORCED FILTER MODE IS ACTIVE).

2. ENTER THE DESIRED FILTER DISPLAY VALUES. THE FILTER VALUES ARE ENTERED IN ASCENDING FILTER POSITION ORDER, 1-7. (NOTE THAT MAXIMUM OF 5 SYMMETRICAL, 1 LSB, AND 1 USB FILTERS MAY BE ENTERED. FEWER MAY BE ENTERED, DEPENDING ON THE FILTER HARDWARE CONFIGURATION). BLANK FILTER SLOTS SHOULD BE ENTERED SIMPLY BY PRESSING ENTER, TO MOVE PAST THE SLOT.

A. SYMMETRICAL FILTERS: PRESS NUMERIC KEYPAD SWITCHES FOR FILTER VALUES, IN 100 Hz RESOLUTION STEPS. (FOR 400 Hz, PRESS “4". FOR 3.2 kHz, PRESS “3" THEN “2"). TERMINATE EACH FILTER ENTRY WITH ENTER.

B. USB FILTER: PRESS THE USB KEYSWITCH, TERMINATE WITH ENTER.

C. LSB FILTER: PRESS THE LSB KEYSWITCH, TERMINATE WITH ENTER.

D. NULL (BLANK) FILTER SLOT: TERMINATE WITH ENTER

3. TERMINATE FORCED FILTER MODE BY PRESSING THE ISB U/L KEYSWITCH. (NOTE THAT THE AUX INDICATOR EXTINGUISHES). NOTE THAT FORCED FILTER MODE WILL AUTOMATICALLY TERMINATE WITH THE 7th PRESSING OF THE ENTER, AS THIS WILL INDICATE TO THE RECEIVER THAT ALL FILTER SLOTS HAVE BEEN DEFINED. PRESSING ISB U/L EARLIER THAN THIS WILL TERMINATE FORCED FILTER MODE, LEAVING ALL UNDEFINED SLOTS IN THEIR ORIGINAL CONFIGURATION.

Hope this helps.
Thanks,
Gary

Please note: message attached

From: "g4miu" <Keith.rawlings@...>
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Hi Everyone, 6790GM Woes
Date: Tue, 20 Oct 2009 08:33:13 -0000

1409. Re: Hi Everyone, 6790GM Woes, Now Success

Yahoo group: Racal6790GM
Date: 2009-10-21 18:41:15 UTC
From: g4miu
Topic: 1408 Message: 1409

Success.

Pouring with rain today so spent a couple of hours on the set, taking a few measurements revealed the sets total lack of any signals to be the AGC hard on.
Going back to the A4 board and following the lead from Gary's fault finding info, I looked at U21 again.

As the set had been on for a period longer than any time since the faults occurred this revealed U21 to be a running bit on the warm side.
I then started looking at U22 and here was the problem. This chip was running quite hot and there was nothing on the pins other than the two supply voltages, one of which was only about 11v, sorry can't remember if the + or -

I pulled this out and replaced with a brand new one from my "spares" box and everything burst into life again.

The set runs and passes BITE and all seems well in the world, for now !

Oh, other than the A8 board is not locking up again but I've spotted my mistake the 74HCT160 replacement I used , was actually a 74HC160, so I am guessing this is the problem. I'll have to find someone who stocks the 74LS160, have also ordered a couple of spare AD7524, just in case as the one fitted had got quite hot.
For now I'll leave the 1792 one fitted as that works fine.

Keith.

--- In Racal6790GM@yahoogroups.com, "Keith" <Keith.rawlings@...> wrote:
>
> Hi Gary.
>
> Thanks for the prompt answer.
>
> I've done as you suggested.
> The filters are now switching as monitored by the voltages on the diodes and the bandwidth display changes as it should.
> However there is no change in the background hiss on AM when the filters (.4 , 1.2 , 6.0, 8.0 kHz) are stepped through.
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> I can leave the set for a number of days when I go back to it the settings are still there.
> Battery voltage measures a fraction over 2.4V with the set off.
>

> Occasionally, in the past, I have had the A6 hang up but re-seating the EPROM'S seems to cure this.
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> I have read through your fault finding info in the files section and a problem with U21 on the A4 seems to give similar symptoms to mine.
> a quick check seems to show pulses going into U21 but nothing coming out on Pin 1.
> I've replaced U21 with a device culled from a spare working RA1792 A4 board but no change.
>
> Thanks.
>
>
> Keith.
>
>
>
> ----- Original Message -----
> From: gewingerd@...
> To: Racal6790GM@yahoogroups.com
> Sent: Tuesday, October 20, 2009 10:26 AM
> Subject: Re: [Racal6790GM] Hi Everyone, 6790GM Woes [1 Attachment]
>
>
> [Attachment(s) from gewingerd@... included below]
>
>
> Keith,
>
> Recheck the connections (no pinched wiring), then try the forced filter procedure to get the filters installed this should help the troubleshooting. The battery is dead on the A6A2 card or you may have other problems with the A6A2 card if the BITE is starting each time the receiver is turned on.
>
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>
> A. SYMMETRICAL FILTERS: PRESS NUMERIC KEYPAD SWITCHES FOR FILTER VALUES, IN 100 Hz RESOLUTION STEPS. (FOR 400 Hz, PRESS "4". FOR 3.2 kHz, PRESS "3" THEN "2"). TERMINATE EACH FILTER ENTRY WITH ENTER.
>
> B. USB FILTER: PRESS THE USB KEYSWITCH, TERMINATE WITH ENTER.
>
> C. LSB FILTER: PRESS THE LSB KEYSWITCH, TERMINATE WITH ENTER.

>
> D. NULL (BLANK) FILTER SLOT: TERMINATE WITH ENTER
>
> 3. TERMINATE FORCED FILTER MODE BY PRESSING THE ISB U/L KEYSWITCH. (NOTE THAT THE AUX INDICATOR EXTINGUISHES). NOTE THAT FORCED FILTER MODE WILL AUTOMATICALLY TERMINATE WITH THE 7th PRESSING OF THE ENTER, AS THIS WILL INDICATE TO THE RECEIVER THAT ALL FILTER SLOTS HAVE BEEN DEFINED. PRESSING ISB U/L EARLIER THAN THIS WILL TERMINATE FORCED FILTER MODE, LEAVING ALL UNDEFINED SLOTS IN THEIR ORIGINAL CONFIGURATION.
>
> Hope this helps.
> Thanks,
> Gary
>
> Please note: message attached
>
> From: "g4miu" <Keith.rawlings@...>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Hi Everyone, 6790GM Woes
> Date: Tue, 20 Oct 2009 08:33:13 -0000
>

1410. RA6774 and RA6778Q

Yahoo group: Racal6790GM
Date: 2009-10-30 15:09:31 UTC
From: Joseph Pinner
Topic: 1410 Message: 1410

Gary and others:

I nned your help and advice.

I have both a RA6774 and a RA6778Q Racal receivers and am trying to figure out what to do with them.

Do you know where I could find any software to control either of these two receivers?

Barring that, I am begining to wonder if my best course would not be part them out. I believe that their modules are common to a number of other Racal sets of their (correct me if I am wrong).

What would you suggest as the best way to approach these two?

Joseph Pinner +
818 Hill Street
Kingston, TN 37763

KC5IJD / NNN0PHR
Roane County EMA408

1411. Re: [Racal6790GM] RA6774 and RA6778Q

Yahoo group: Racal6790GM
Date: 2009-11-02 16:17:22 UTC
From: oscar873@aol.com
Topic: 1410 Message: 1411

may be sell them as is to some one who may think that they need
them......
Al

-----Original Message-----
From: Joseph Pinner <kc5ijd@...>
To: Racal6790GM@yahoogroups.com; gewingerd@...
Sent: Fri, Oct 30, 2009 8:09 am
Subject: [Racal6790GM] RA6774 and RA6778Q

Gary and others:

I nned your help and advice.

I have both a RA6774 and a RA6778Q Racal receivers and am trying to
figure out what to do with them.

Do you know where I could find any software to control either of these
two receivers?

Barring that, I am begining to wonder if my best course would not be
part them out. I believe that their modules are common to a number of
other Racal sets of their (correct me if I am wrong).

What would you suggest as the best way to approach these two?

Joseph Pinner +
818 Hill Street
Kingston, TN 37763

KC5IJD / NNN0PHR
Roane County EMA408

1412. Racal Preselector

Yahoo group: Racal6790GM
Date: 2009-11-03 15:09:11 UTC
From: Mil Radman
Topic: 1412 Message: 1412

Does anybody have a manual or other documentation for a Racal MA6784 preselector? I believe it's one of Gary's former units with the controller he made for it.
Gary, the control box operation looks straight forward but any pointers on the unit would be really helpful as I know nothing about the internals. Was the preselector originally used with a DF system?
Thanks,
John

1413. Re: [Racal6790GM] Racal Preselector

Yahoo group: Racal6790GM
Date: 2009-11-03 19:07:12 UTC
From: gewingerd@netzero.com
Topic: 1412 Message: 1413
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1414. RE: [Racal6790GM] Racal Preselector

Yahoo group: Racal6790GM
Date: 2009-11-03 20:00:51 UTC
From: Carcia, Francis A HS
Topic: 1412 Message: 1414
Attachments: 3 described; binary payloads are missing from this source WARC

This is a partial of the preselector used in the 6830 DF system I bet the same hardware. Filters are selected by grounding pins of the DB 23, 4 bit code then a couple bits to turn off the attenuators. I seem to remember pin 1 ground then 2-5 filter select (Binary) then attenuator bits. My unit selects both banks from 1 DB 25 input. It is pretty easy to reverse engineer with a signal generator and RX. I control my unit with a 4 pole 23 position (13 used) switch. The two channels can be cascaded.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of gewingerd@...
Sent: Tuesday, November 03, 2009 2:07 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Racal Preselector

John,

Yes the preselector was used with DF Systems, the ones I sold were new and never used. They are dual preselectors and manuals are out there somewhere.

Thanks,
Gary

Please note: message attached

From: Mil Radman <milradman@... <mailto:milradman%40yahoo.com> >
To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
Subject: [Racal6790GM] Racal Preselector
Date: Tue, 3 Nov 2009 07:09:11 -0800 (PST)

1415. Bad CW filter.

Yahoo group: Racal6790GM
Date: 2009-11-13 14:17:33 UTC
From: otradalur
Topic: 1415 Message: 1415

hello,
I recently purchased a 400 Hz filter on eBay which doesn´t work.

BITE does not find the filter and I have tried the force filter procedure with the result that the receiver is dead when the filter is selected.

What is the failure mode of these filters and the chances of being able to repair?

I have considered opening up the filter and I wonder what the best procedure is, in order not to cause further damage.

Hacksaw, heat-gun? Perhaps the filter is filled with epoxy?

The filter is marked as follows:
SPECIAL I.F. FILTER NO 1 400 Hz
FILTRONICS, INC.

Thanks for any advice,

73
Thor, TF4M
http://tf4m.com/

1416. Re: [Racal6790GM] Bad CW filter.

Yahoo group: Racal6790GM
Date: 2009-11-13 14:55:22 UTC
From: Dan Rae
Topic: 1415 Message: 1416

otradalur wrote:
> hello,
> I recently purchased a 400 Hz filter on eBay which doesn?t work.
>
>

> What is the failure mode of these filters and the chances of being able to repair?
>
Various things can go wrong obviously. But the chances of repair are
good. After all what can you lose?

> I have considered opening up the filter and I wonder what the best procedure is, in order not to cause further damage.
>
> Hacksaw, heat-gun? Perhaps the filter is filled with epoxy?
>

I usually use a sharp knife to remove as much of the solder in the seam
as possible and then insert something like a screw driver blade in there
to get it open. This usually works but is hard work. Others have used
a thin Dremel cut off wheel to so a similar thing.

I have never seen a filter filled with anything, except for the UK made
crystal filters for the RA1792 which have unencapsulated crystals inside
and are thus filled with an inert gas.

I have repaired one or two GM filters, and several from other racals.
Most of the time you will find a broken off connecting or ground wire,
or something obvious by inspection. I have also found open capacitors
in the end matching sections and toroids with shorts.

Some will have alignment ceramic trimmers inside. Alignment is easy
enough with a spectrum analyser / tracking generator combination or
Network analyser, if needed. If you don't have the gear, leave well
alone.

Good luck!

Dan

ac6ao / g3ncr

1417. RE: [Racal6790GM] Bad CW filter.

Yahoo group: Racal6790GM
Date: 2009-11-13 16:18:35 UTC
From: Carcia, Francis A HS
Topic: 1415 Message: 1417

I had a bad one and mounted it in a vise and heated the seam with a butane torch while tugging on the cover. I popped it right open. You only need a small flame and go around in circles on the seam. The problem was one of the screws was loose so part of the ground system was floating. I added bus wire between the ground islands. frank

---

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Dan Rae
Sent: Friday, November 13, 2009 9:55 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Bad CW filter.

otradalur wrote:
> hello,
> I recently purchased a 400 Hz filter on eBay which doesn´t work.
>
>

> What is the failure mode of these filters and the chances of being able to repair?
>
Various things can go wrong obviously. But the chances of repair are
good. After all what can you lose?

> I have considered opening up the filter and I wonder what the best procedure is, in order not to cause further damage.
>
> Hacksaw, heat-gun? Perhaps the filter is filled with epoxy?
>

I usually use a sharp knife to remove as much of the solder in the seam
as possible and then insert something like a screw driver blade in there
to get it open. This usually works but is hard work. Others have used
a thin Dremel cut off wheel to so a similar thing.

I have never seen a filter filled with anything, except for the UK made
crystal filters for the RA1792 which have unencapsulated crystals inside
and are thus filled with an inert gas.

I have repaired one or two GM filters, and several from other racals.
Most of the time you will find a broken off connecting or ground wire,
or something obvious by inspection. I have also found open capacitors
in the end matching sections and toroids with shorts.

Some will have alignment ceramic trimmers inside. Alignment is easy
enough with a spectrum analyser / tracking generator combination or
Network analyser, if needed. If you don't have the gear, leave well

alone.

Good luck!

Dan

ac6ao / g3ncr

1418. Re:Bad CW filter.

Yahoo group: Racal6790GM
Date: 2009-11-14 14:15:14 UTC
From: gandalfg8@aol.com
Topic: 1415 Message: 1418

I recently purchased a 400 Hz filter on eBay which doesn´t work.....

The filter is marked as follows:
SPECIAL I.F. FILTER NO 1 400 Hz
FILTRONICS, INC.

Perhaps a silly question, but are you sure it's a 455 KHz filter?

If you're not sure, and have the appropriate test gear, it might be worth checking for the centre frequency, up to 20 or 30 MHz say, before ripping it apart.

If it's the right size that's a useful indicator of approximate centre frequency, 10.7 MHz or 21.4MHz filters for example are likely to be smaller, but 1.4MHz filters will be of similar size and other centre frequencies around 400 to 500KHz do turn up now and then.

regards

Nigel
GM8PZR

1419. DF controller

Yahoo group: Racal6790GM
Date: 2009-11-14 22:13:01 UTC
From: Tom B
Topic: 1419 Message: 1419

Hello All,

I have a Racal MA662 DF controller made for TCI. It appears to need
four receivers connected to it.
Could someone tell me a bit about what it does?

Tom Bryan

1420. DF controller

Yahoo group: Racal6790GM
Date: 2009-11-14 22:14:30 UTC
From: Tom B
Topic: 1419 Message: 1420

Hello All,

Correction

I have a Racal MA6622 DF controller made for TCI. It appears to need
four receivers connected to it.
Could someone tell me a bit about what it does?

Tom Bryan

1421. Re: [Racal6790GM] Re:Bad CW filter.

Yahoo group: Racal6790GM
Date: 2009-11-14 22:58:09 UTC
From: Thorvaldur Stefansson
Topic: 1415 Message: 1421

Thanks to those who replied.

I believe the filter came from a 6790, there is no visible reference on it
to 455 kHz though and it looks exactly like the other filters in my radio.

The seller is sending me another filter, hopefully that will work ok.

73
Thor, TF4M

2009/11/14 <gandalfg8@...>

>
>
> I recently purchased a 400 Hz filter on eBay which doesn´t work.......
>
> The filter is marked as follows:
> SPECIAL I.F. FILTER NO 1 400 Hz
> FILTRONICS, INC.
> ----------
> Perhaps a silly question, but are you sure it's a 455 KHz filter?
>
> If you're not sure, and have the appropriate test gear, it might be worth
> checking for the centre frequency, up to 20 or 30 MHz say, before ripping it
> apart.
>
> If it's the right size that's a useful indicator of approximate centre
> frequency, 10.7 MHz or 21.4MHz filters for example are likely to be smaller,
> but 1.4MHz filters will be of similar size and other centre frequencies
> around 400 to 500KHz do turn up now and then.
>
> regards
>
> Nigel
> GM8PZR
>
>
>

1422. Racal 6790 loss of sensitivity

Yahoo group: Racal6790GM
Date: 2009-11-15 00:43:00 UTC
From: Joseph Pinner
Topic: 1422 Message: 1422

Several days ago, I was moving some of my rack mounted radios from one position to another.

I made the mistake of standing my RA6790 on its back - OK no need to tell me how stupid this was and I bumped it and nocked it onto the concrete floor.

Following that bit of stress, I now find that its sensitvity was significantly affected.

There seems to be a normal amount of hiss but signal levels are much lower.

Where should I begin troubleshooting?

Could I have damaaged the front end mixer?

Joseph Pinner +
KC5IJD / NNN0PHR

1423. RE:Racal MA-1072

Yahoo group: Racal6790GM
Date: 2009-11-25 17:27:36 UTC
From: Shaun
Topic: 1423 Message: 1423

Hi guys,I am new to the group and new to Racal equipment,I have purchased a RA-1784 HF Receiver and need to buy the MA-1072 control unit,if anyone can help please get in touch,cash waiting.

Kind regards Shaun.

1424. birdie

Yahoo group: Racal6790GM
Date: 2009-12-09 14:58:37 UTC
From: JEAN PAUL
Topic: 1010 Message: 1424

Hi, my 6790 run a birdie at 14 091 khz !

I look any solution

merci 73 paul F5QE

1425. 0T - Racal MA1724 Drive Unit

Yahoo group: Racal6790GM
Date: 2009-12-11 14:18:02 UTC
From: gandalfg8@aol.com
Topic: 1425 Message: 1425

Hi All

Apologies for the off topic posting but there's no information to be found online so I'm hoping there may be somebody here with knowledge of this unit.

It's a Racal MA1724 drive unit, similar size and vintage to the MA1723 but this one has ten crystal controlled channels so no internal microprocessor or synthesiser and no LCD displays.

I've had this a few years and recently decided to sell it as I'm unlikely to ever use it now but then discovered that although I bought it as "new", and it still looks to be new and unused complete with original inspection tags, it also looks to be missing a circuit board.

From the markings on the adjacent floating cable mounted connectors this is probably PCB number 4.
However, there's no pillars fitted for the PCB and no marks on the metalwork to indicate that anything might have been fitted and then removed. This lack of fixings might indicate this was space for an option not fitted but then I would have expected the unused connecting cables to be better secured.

If anyone could throw any light on this it would be much appreciated, as would any other information about this unit.

regards

Nigel
GM8PZR

1426. Re: 0T - Racal MA1724 Drive Unit

Yahoo group: Racal6790GM
Date: 2009-12-11 17:06:50 UTC
From: Shaun
Topic: 1425 Message: 1426

Hi,when you do come to sell it could you let me know the price as I would be interested in buying it.

1427. Re: A4 board filters for ISB

Yahoo group: Racal6790GM
Date: 2009-12-27 01:22:35 UTC
From: mjmlotko
Topic: 1045 Message: 1427

Hi Larry,

Not sure if you have installed your ISB board, but if nor and you
would like to sell it, I would like to buy it, as I have been trying to find one for some time. Just let me know what you want for it.

Mike

--- In Racal6790GM@yahoogroups.com, "larry.mcgee20" <lrmagoo@...> wrote:
>
> Hello to all.
>
> I have an ISB board that I wanted to install in a receiver with the
> regular A4 board. I know I have to change 1 A4 jumper, plus adjust the
> trim pot on the front panel per the manual. Will the proms on the A6
> board work with the ISB board added?. What are the ideal ISB filters? I
> have one filter for ISB/Lower SB & one filter for ISB/Upper SB.
>
> What do you actually get and gain when using ISB (Independent Side
> Band)?
>
> Thanks for your information.
>
> Larry mCgee
>

1428. Re: [Racal6790GM] Re: A4 board filters for ISB

Yahoo group: Racal6790GM
Date: 2009-12-28 02:37:34 UTC
From: gewingerd@netzero.com
Topic: 1045 Message: 1428
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1429. Hi! I need the cover-plates for the top and bottom of the receiver.....

Yahoo group: Racal6790GM
Date: 2010-01-05 22:13:51 UTC
From: kenwood1988
Topic: 1429 Message: 1429

Hi together,

I have the bad luck that I got my RA6790 without the cover-plates. Mine was installed in a housing and anyhow the plates were removed - what i realized too late. So the question, has anyone these cover plates ? Maybe from a not working receiver or so ? That would be really great.

Thanks a lot and best Regards,

73 Jens DO6WT

1430. BITE Code 99?

Yahoo group: Racal6790GM
Date: 2009-10-25 00:29:53 UTC
From: bryanste
Topic: 1430 Message: 1430

What does BITE code 99 indicate? Thanks.

Bryan
KG4UPR

1431. Re: [Racal6790GM] BITE Code 99?

Yahoo group: Racal6790GM
Date: 2010-01-06 18:04:14 UTC
From: gewingerd@netzero.com
Topic: 1430 Message: 1431
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1432. Re: [Racal6790GM] Hi! I need the cover-plates for the top and bottom o f the receiver.....

Yahoo group: Racal6790GM
Date: 2010-01-06 18:07:05 UTC
From: gewingerd@netzero.com
Topic: 1432 Message: 1432
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1433. Re: [Racal6790GM] Hi! I need the cover-plates for the top and bottom of the receiver.....

Yahoo group: Racal6790GM
Date: 2010-01-06 19:13:21 UTC
From: Tom Frobase
Topic: 1429 Message: 1433

You might check with Fair radio in Lima Ohio

On 1/5/10, kenwood1988 <jens-witt@...> wrote:
> Hi together,
>
> I have the bad luck that I got my RA6790 without the cover-plates. Mine was
> installed in a housing and anyhow the plates were removed - what i realized
> too late. So the question, has anyone these cover plates ? Maybe from a not
> working receiver or so ? That would be really great.
>
> Thanks a lot and best Regards,
>
>
> 73 Jens DO6WT
>
>

--
Sent from my mobile device

1434. Re: BITE Code 99?

Yahoo group: Racal6790GM
Date: 2010-01-11 15:55:47 UTC
From: bryanste
Topic: 1430 Message: 1434

Thanks for the info Gary. The force filter procedure appears to be effective, and I need to install that new battery to see if it clears the 99.

Bryan

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Bryan
> KG4UPR,
>
> The only 99 code I know for a receiver would be the Dual Antenna RA6790/GM and it has to do with the filters. you may have to use the force filter to clear the problem.
>
> ERROR CODE 99
>
> A) Automatic BITE was initiated at turn on because random access memory (RAM) and therefore the last IF band pass filter bandwidth complement may be in error. Check complement and reload using forced IF band pass filter bandwidth setup, locally or over a remote interface. Refer to the standard RA6790/GM HF receiver technical manual to obtain local/remote operation instructions on how to force IF band pass filter bandwidth setup.
>
> B) Filter configuration as analyzed by BITE shows differences to that stored in RAM when last loaded using force IF band pass filter bandwidth setup. Check and reload configuration if necessary using forced IF band pass filter bandwidth setup procedure either locally over a remote interface. Refer to the standard RA6790/GM HF receiver technical manual to obtain local/remote operation instructions on how to force IF band pass filter bandwidth setup.
>
>
> GARY E. WINGERD
> 9107 JORDAN RD.
> FAIRPLAY, MD 21733
> gewingerd@...
>
>
>
>
> Please note: message attached
>
> From: "bryanste" <bryanste@...>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] BITE Code 99?
> Date: Sun, 25 Oct 2009 00:29:53 -0000
>
>
>

> What does BITE code 99 indicate? Thanks.
>
> Bryan
> KG4UPR
>

1435. Dxtra's WS 4.3 / Racal Now Available

Yahoo group: Racal6790GM
Date: 2010-01-20 15:26:35 UTC
From: dxtrainc
Topic: 1435 Message: 1435

The new version of WorldStationTM works great with the Racal. Once set up, the serial port control is flawless. I am running WS at the maximun baud rate for the Racal, 19200. Gary prepared the special serial cable for me.

I find that manual use of the IF Gain is essential to get the best sound perfromance from the Racal.

The latest version has advanced database support for EiBI and Aoki built-in. One-button update is built into the datbases. The software fetches the files from the web, parses them, builds the in-memory datbases and so forth.

All tables update every minute. In the demo movie I'm actually controlling the Racal in my office on the LAN. The GUI (control interface) is running on my home theatre system. I am using a streaming audio server for the sound. Built-in control of Sype and iTunes is built into WS. My location is on Long Island.

Here is the link to the short (5 megs) movie:

http://www.dxtra.com/ws43racalmovie.mp4

I can also put up an on-line demo of the 6790 if anyone is interested.

http://groups.yahoo.com/worldstation

1436. Need help / advice with A8 / 2nd Osc/Bfo board

Yahoo group: Racal6790GM
Date: 2010-01-22 15:17:00 UTC
From: darrellhuth
Topic: 1436 Message: 1436

I just picked up a clean 6790, When plugged in it just displayed all zeros and would not do a thing.No display lights either. After a bit of trouble shooting I found that if I unplugged the A8 2nd osc/bfo board, the display lights come on and front panel controls work ok.

OK, something on the A8 board is drawing too much current? I was wondering if anyone has had similar problems and may know how to proceed. Also, If anyone has a spare A8 for sale!

Thanks, Darrell / WB6VHK

1437. Re: [Racal6790GM] Need help / advice with A8 / 2nd Osc/Bfo board

Yahoo group: Racal6790GM
Date: 2010-01-22 15:34:28 UTC
From: Keith
Topic: 1436 Message: 1437

I would say 99% that you have a Tantalum cap pulling the supply line down on that board.
Check also that the inductors on that line have not been damaged as well.

Keith
G4MIU

----- Original Message -----
From: darrellhuth
To: Racal6790GM@yahoogroups.com
Sent: Friday, January 22, 2010 3:17 PM
Subject: [Racal6790GM] Need help / advice with A8 / 2nd Osc/Bfo board

I just picked up a clean 6790, When plugged in it just displayed all zeros and would not do a thing.No display lights either. After a bit of trouble shooting I found that if I unplugged the A8 2nd osc/bfo board, the display lights come on and front panel controls work ok.

OK, something on the A8 board is drawing too much current? I was wondering if anyone has had similar problems and may know how to proceed. Also, If anyone has a spare A8 for sale!

Thanks, Darrell / WB6VHK

1438. Re: [Racal6790GM] Need help / advice with A8 / 2nd Osc/Bfo board

Yahoo group: Racal6790GM
Date: 2010-01-22 15:41:40 UTC
From: toddroberts2001@aol.com
Topic: 1436 Message: 1438

In a message dated 1/22/2010 10:18:48 A.M. Eastern Standard Time,
dh1338@... writes:

I just picked up a clean 6790, When plugged in it just displayed all zeros
and would not do a thing.No display lights either. After a bit of trouble
shooting I found that if I unplugged the A8 2nd osc/bfo board, the display
lights come on and front panel controls work ok.

OK, something on the A8 board is drawing too much current? I was wondering
if anyone has had similar problems and may know how to proceed. Also, If
anyone has a spare A8 for sale!

Thanks, Darrell / WB6VHK

One of the most common failures in a 6790 is a shorted tantalum capacitor.
These tend to go bad over the years. You have probably identified the A8
board as having a shorted tantalum capacitor.

The display lighting is fed from the +15V regulated line from the power
supply.
Therefore the problem is probably a shorted tantalum capacitor somewhere on
the A8 board in the +15V regulated line.

If you have the manual look up the A8 board schematic and follow the +15V
line on the
circuit board and identify which tantalum capacitors are across the +15V
line.

Remove the capacitors one at a time and check each one to see if it has a
dead
short. When you find the bad capacitor replace it with a known brand new
one. It is
probably a good idea to replace it with one that has a higher voltage
rating. For
example if the original is rated at 25V replace it with one rated 35V for
better
long term reliability.

This is usually a simple fix. It just takes a little time to locate the bad
capacitor
and replace it. It could always be something else but 99% of the time it is
a
shorted tantalum that causes these symptoms.

73 Todd WD4NGG

1439. Re: [Racal6790GM] Need help / advice with A8 / 2nd Osc/Bfo board

Yahoo group: Racal6790GM
Date: 2010-01-22 15:25:40 UTC
From: Dan Rae
Topic: 1436 Message: 1439

darrellhuth wrote:
> I just picked up a clean 6790, When plugged in it just displayed all zeros and would not do a thing.No display lights either. After a bit of trouble shooting I found that if I unplugged the A8 2nd osc/bfo board, the display lights come on and front panel controls work ok.
>
> OK, something on the A8 board is drawing too much current? I was wondering if anyone has had similar problems and may know how to proceed. Also, If anyone has a spare A8 for sale!
>
> Thanks, Darrell / WB6VHK
>
>
>
>

Darrel 100 to 1 it's a tantalum on one of the supply lines.
Dan

1440. Re: [Racal6790GM] Need help / advice with A8 / 2nd Osc/Bfo board

Yahoo group: Racal6790GM
Date: 2010-01-22 18:42:18 UTC
From: Tom Frobase
Topic: 1436 Message: 1440

When you find that shorted cap, check the inductor ahead of it sometimes
they also get scrorched ... tom, N3LLL

1441. RE: [Racal6790GM] Need help / advice with A8 / 2nd Osc/Bfo board

Yahoo group: Racal6790GM
Date: 2010-01-22 18:49:35 UTC
From: darrell huth
Topic: 1436 Message: 1441

Thanks to everyone for all the good advice, I am sure that is what is wrong. When it comes to the inductors, they all LOOK ok, how best to check them?.....Darrell

To: Racal6790GM@yahoogroups.com
From: tfrobase@gmail.com
Date: Fri, 22 Jan 2010 12:42:18 -0600
Subject: Re: [Racal6790GM] Need help / advice with A8 / 2nd Osc/Bfo board

When you find that shorted cap, check the inductor ahead of it sometimes they also get scrorched ... tom, N3LLL

_____
Hotmail: Trusted email with powerful SPAM protection.
http://clk.atdmt.com/GBL/go/196390707/direct/01/

1442. Re: [Racal6790GM] Need help / advice with A8 / 2nd Osc/Bfo board

Yahoo group: Racal6790GM
Date: 2010-01-22 19:03:29 UTC
From: Dan Rae
Topic: 1436 Message: 1442

darrell huth wrote:
>
>
> Thanks to everyone for all the good advice, I am sure that is what is
> wrong. When it comes to the inductors, they all LOOK ok, how best to
> check them?.....Darrell
>
> ---

With a multimeter, but if they look OK then they probably are fine.
Even looking burnt they often survive. The Tantalum will show almost
zero resistance to ground and the supply is current limited so probably
no harm has come to anything else. The tant will sometimes explode also
leaving nothing but the wires in the holes and a very nasty smell. As
Todd rightly pointed out it is probably the one on the +15 Volt supply.

Dan

1443. Sucsess! Thanks to everyone for the great help!

Yahoo group: Racal6790GM
Date: 2010-01-22 21:51:10 UTC
From: darrellhuth
Topic: 1443 Message: 1443

Thanks everyone for your help! One bad cap on the 15V line was the problem. Funny thing was it did not look or check bad.....Now the radio plays like a million.......I owe you all a beer...73, Darrell

1444. RA1792 displays installed

Yahoo group: Racal6790GM
Date: 2010-01-29 00:51:25 UTC
From: vk2ilv
Topic: 1444 Message: 1444

Hi gang,

Just installed new LCD displays in my RA1792.
They work fine.
I got them from here....
http://www.1792lcd.com/
25 Euro each.

Regards
Ray

1445. WS 4.3 / YouTube Video - Narrow Filter Mode Added

Yahoo group: Racal6790GM
Date: 2010-02-02 16:34:04 UTC
From: dxtrainc
Topic: 1445 Message: 1445

Per the request of a customer, the latest build of the control GUI now has a narrow CW filter mode. This can be used for 100 Hz filters, for example. These narrow filters are used for beacon hunting.

I have put up a HD video on YouTube showing the latest build in action, In this video, the 6790/GM has been integrated into a home theatre system. Remote control of the radio is through a home LAN, with the audio streaming client being supplied by iTunes. iTunes is also under the control of the control of the WS GUI (mute, volume, and track). The video is being recorded off a a Mitsubishi 72" DLP set. A Mac-Mini is controlling the home theatre and Windows XP / WS is running under VMware. Main amp on the HT system is a Carver Sunfire, speakers are Polk LSi 15's. An Anthem AVM50 controls switching.

Link to the YouTube video:

http://www.youtube.com/watch?v=unP0v3oMAa4

Dxtra's Yahoo group:

http://tech.groups.yahoo.com/group/worldstation/

1446. Re: RA1792 displays installed

Yahoo group: Racal6790GM
Date: 2010-02-02 21:23:16 UTC
From: i8iov
Topic: 1444 Message: 1446

Thanks for advising. I immediately bought the displays and they actually work fine. But the receiver, which was unused since several months, refuses now to work: no audio and the FAULT indicator on (on the right display). May be one of those tantalums...So I have now to fix it before enjoying the new displays!!

Antonio I8IOV

--- In Racal6790GM@yahoogroups.com, "vk2ilv" <robinson@...> wrote:
>
> Hi gang,
>
> Just installed new LCD displays in my RA1792.
> They work fine.
> I got them from here....
> http://www.1792lcd.com/
> 25 Euro each.
>
> Regards
> Ray
>

1447. Re: [Racal6790GM] Hi! I need the cover-plates for the top and bottom o f the receiver.....

Yahoo group: Racal6790GM
Date: 2010-03-01 05:07:16 UTC
From: gewingerd@netzero.com
Topic: 1432 Message: 1447
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1448. Want:: Looking for an RA6790/GM

Yahoo group: Racal6790GM
Date: 2010-03-04 22:03:24 UTC
From: ve7igz
Topic: 1448 Message: 1448

Hi, I am new to this group and am hoping some kind soul out there has a nice condition RA6790/GM with a basic set of filters that they are looking to sell for a reasonable price, let me know what you have and how many beer tokens you require.

thanks.

Rob VA7UK
Abbotsford,BC.

1449. Re: Want:: Looking for an RA6790/GM

Yahoo group: Racal6790GM
Date: 2010-03-04 23:41:32 UTC
From: j.hafele
Topic: 1448 Message: 1449

--- In Racal6790GM@yahoogroups.com, "ve7igz" <mancity@...> wrote:
>
> Hi, I am new to this group and am hoping some kind soul out there has a nice condition RA6790/GM with a basic set of filters that they are looking to sell for a reasonable price, let me know what you have and how many beer tokens you require.
>
> thanks.
>
> Rob VA7UK
> Abbotsford,BC.
>
Rob -
Check out Toronto Surplus and Scientific`s website. They do have units in stock and also stock a decent amount of filters. They are really great people to do business with and are extremely helpful. Just type in the word ` RACAL ` in the search box and you will see the 6790s listed. Good luck,
..... John.

1450. Re: Want:: Looking for an RA6790/GM

Yahoo group: Racal6790GM
Date: 2010-03-05 00:54:16 UTC
From: ve7igz
Topic: 1448 Message: 1450

> Check out Toronto Surplus and Scientific`s website. They do have units in stock and also stock a decent amount of filters. They are really great people to do business with and are extremely helpful. Just type in the word ` RACAL ` in the search box and you will see the 6790s listed. Good luck,
> ..... John.

Hi John, I already checked them out and they want $985 US for one with 2 filters (3.24Khz & 6.8Khz)which is a bit more than I want to pay, especially when I have to add 7% tax and shipping to that amount and then convert to Canadian dollars. Hopefully I'll get a better deal here.

Rob.

1451. Re: Want:: Looking for an RA6790/GM

Yahoo group: Racal6790GM
Date: 2010-03-05 05:29:29 UTC
From: j.hafele
Topic: 1448 Message: 1451

--- In Racal6790GM@yahoogroups.com, "ve7igz" <mancity@...> wrote:
>
>
> > Check out Toronto Surplus and Scientific`s website. They do have units in stock and also stock a decent amount of filters. They are really great people to do business with and are extremely helpful. Just type in the word ` RACAL ` in the search box and you will see the 6790s listed. Good luck,
> > ..... John.
>
> Hi John, I already checked them out and they want $985 US for one with 2 filters (3.24Khz & 6.8Khz)which is a bit more than I want to pay, especially when I have to add 7% tax and shipping to that amount and then convert to Canadian dollars. Hopefully I'll get a better deal here.
>
> Rob.
>

I forgot about the fact that you reside in Canada. This outfit is really good, however, and the units are checked out, certified, and my unit was in good shape. You are getting a receiver from a reputable dealer and not running the risk of getting a defective one from an online auction, etc. Good luck in your search. ..... John.

1452. Re: [Racal6790GM] Re: Want:: Looking for an RA6790/GM

Yahoo group: Racal6790GM
Date: 2010-03-05 10:16:42 UTC
From: gewingerd@netzero.com
Topic: 1448 Message: 1452
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1453. Re: Want:: Looking for an RA6790/GM

Yahoo group: Racal6790GM
Date: 2010-03-06 16:42:29 UTC
From: ve7igz
Topic: 1448 Message: 1453

Hi, thanks for all the replies, I've now located a very nice 6790 thanks to Dan and am very much looking forward to receiving it.

Rob.

--- In Racal6790GM@yahoogroups.com, "ve7igz" <mancity@...> wrote:
>
> Hi, I am new to this group and am hoping some kind soul out there has a nice condition RA6790/GM with a basic set of filters that they are looking to sell for a reasonable price, let me know what you have and how many beer tokens you require.
>
> thanks.
>
> Rob VA7UK
> Abbotsford,BC.
>

1454. Help needed ID'ing a cap on the A2 board!

Yahoo group: Racal6790GM
Date: 2010-03-12 16:17:49 UTC
From: Darrell
Topic: 1454 Message: 1454

A few nights ago I was listening to my 6790 when all of a sudden I noticed the audio went out.....And then smelled smoke!....I waited a few days for the depression to subside and then took it apart. Seems a cap smoked on the A2 board but I don't know the value. It is the cap on the edge of the board to the outside of the J2 connector (not the little blue cap but the larger yellow one) .....Can anyone help? Thanks, Darrell / WB6VHK

1455. Re: [Racal6790GM] Help needed ID'ing a cap on the A2 board!

Yahoo group: Racal6790GM
Date: 2010-03-12 16:45:05 UTC
From: Dan Rae
Topic: 1454 Message: 1455

Darrell wrote:
> A few nights ago I was listening to my 6790 when all of a sudden I noticed the audio went out.....And then smelled smoke!....I waited a few days for the depression to subside and then took it apart. Seems a cap smoked on the A2 board but I don't know the value. It is the cap on the edge of the board to the outside of the J2 connector (not the little blue cap but the larger yellow one) .....Can anyone help? Thanks, Darrell / WB6VHK
>
Darrell with respect I would have thought it was easier to look it up in the manual than to write that email :^), but maybe you don't have one... You can download the full manual for free.

It's also not that easy to tell from your description since the colors vary from unit to unit. BUT, I would hazard a guess that it's the tantalum on the -15 Volt rail, or one of the others; replace it with a 15 ?F 35 Volt one rather than the original 20 Volt. If you can't find one then a regular electrolytic would not hurt. It might be worth checking that the little RF choke in series with the supply has not got burnt also.

Tantalum bead capacitors do die. It's a fact of life and the most common fault, not only in Racals but in any gear of that age. It only happens when you switch the thing on.

It's certainly not worth getting upset about. Think rather how good you will feel when you fix it! But I don't know how to get rid of the smell...

73

Dan

ac6ao

1456. Re: [Racal6790GM] Help needed ID'ing a cap on the A2 board!

Yahoo group: Racal6790GM
Date: 2010-03-12 17:13:50 UTC
From: toddroberts2001@aol.com
Topic: 1454 Message: 1456

In a message dated 3/12/2010 11:45:39 A.M. Eastern Standard Time,
danrae@verizon.net writes:
Darrell with respect I would have thought it was easier to look it up in
the manual than to write that email :^), but maybe you don't have
one... You can download the full manual for free.

It's also not that easy to tell from your description since the colors
vary from unit to unit. BUT, I would hazard a guess that it's the
tantalum on the -15 Volt rail, or one of the others; replace it with a
15 µF 35 Volt one rather than the original 20 Volt. If you can't find
one then a regular electrolytic would not hurt. It might be worth
checking that the little RF choke in series with the supply has not got
burnt also.

Tantalum bead capacitors do die. It's a fact of life and the most common
fault, not only in Racals but in any gear of that age. It only happens
when you switch the thing on.

It's certainly not worth getting upset about. Think rather how good you
will feel when you fix it! But I don't know how to get rid of the smell...
73
Dan
ac6ao

Hi Darrell,
Very good advice from Dan!
I would recommend getting a paper manual or even one on CD to
help you identify parts from their location on the different boards.

I see the A2 board has only 2 tantalum capacitors and they are next to each
other and
both are the same value, 15uF at 20VDC. Like Dan says it is always best to
replace a
burned out tantalum with a higher voltage rated unit, like 35 volts, to
help
avoid future trouble.

Also each tantalum has a small molded choke wired in series with it on the
board. If the
tantalum shorts out it could 'smoke' the choke associated with it due to
heavy current being forced through the choke when the tantalum shorts out.
The chokes
look very similar to standard resistors on the board. It might be
a good idea to replace the molded choke associated with the tantalum
capacitor that
shorted to avoid future trouble also. Another good reason to have the

manual so you
can tell which choke is which. They have different values on the board.

73 Todd WD4NGG

1457. Re: [Racal6790GM] Help needed ID'ing a cap on the A2 board!

Yahoo group: Racal6790GM
Date: 2010-03-12 17:21:51 UTC
From: g4nce@f2s.com
Topic: 1454 Message: 1457

Hi,

Some tant bead caps tend to fail spectacularly. I had one go off like a firework, with sparks and a jet of smoke through the top cover in an RA1792. Or they just fail quietly. If it doesn't end up looking like a charred blob, a subtle colour difference and/or a pinprick-size hole in the bead is a good indication it has expired. Most are not too critical in value if you can't get the book figure, some headroom in the working voltage for its application is the important thing.

Fortunately the PSU in these receivers tends to survive when a tant goes s/c. I have not had a supply rail series choke fail either. So far...!

On duff receivers with a voltage rail down, I tend to unplug all the boards and then plug them back in one-by-one until the rail goes down again. Then leave that board unplugged and plug the rest back in to make sure there's not a second fault. I have found tants difficult to remove from the plated-through holes in some boards, so tend now to cut the cap off above the board and fix and solder the new cap to the remaining legs, rather than risk damaging the track with too much heat.

HTH

Martin
G4NCE

1458. RE: [Racal6790GM] Help needed ID'ing a cap on the A2 board!

Yahoo group: Racal6790GM
Date: 2010-03-12 17:29:37 UTC
From: darrell huth
Topic: 1454 Message: 1458

Thanks you guys.....I should have been more specific (as usual)....I am at work, Don't have a manual yet, and was hoping to run down to the store at lunch and pick up a few caps, I just needed to know the values. Thanks for all of your quick replies!

To: Racal6790GM@yahoogroups.com
From: danrae@...
Date: Fri, 12 Mar 2010 08:45:05 -0800
Subject: Re: [Racal6790GM] Help needed ID'ing a cap on the A2 board!

Darrell wrote:

> A few nights ago I was listening to my 6790 when all of a sudden I noticed the audio went out.....And then smelled smoke!....I waited a few days for the depression to subside and then took it apart. Seems a cap smoked on the A2 board but I don't know the value. It is the cap on the edge of the board to the outside of the J2 connector (not the little blue cap but the larger yellow one) .....Can anyone help? Thanks, Darrell / WB6VHK

>

Darrell with respect I would have thought it was easier to look it up in

the manual than to write that email :^), but maybe you don't have

one... You can download the full manual for free.

It's also not that easy to tell from your description since the colors

vary from unit to unit. BUT, I would hazard a guess that it's the

tantalum on the -15 Volt rail, or one of the others; replace it with a

15 µF 35 Volt one rather than the original 20 Volt. If you can't find

one then a regular electrolytic would not hurt. It might be worth

checking that the little RF choke in series with the supply has not got

burnt also.

Tantalum bead capacitors do die. It's a fact of life and the most common

fault, not only in Racals but in any gear of that age. It only happens

when you switch the thing on.

It's certainly not worth getting upset about. Think rather how good you

will feel when you fix it! But I don't know how to get rid of the smell...

73

Dan

ac6ao

_____
Hotmail: Trusted email with Microsoft’s powerful SPAM protection.
http://clk.atdmt.com/GBL/go/210850552/direct/01/

1459. Re: [Racal6790GM] Help needed ID'ing a cap on the A2 board!

Yahoo group: Racal6790GM
Date: 2010-03-12 18:11:22 UTC
From: Dan Rae
Topic: 1454 Message: 1459

Darrell, anything from 10 to 47 ?F at 25 Volts will get you going again, I doubt you'll find any tantalums at Radio Shack. Worth getting one in there though eventually, they do have better performance as decoupling caps than regular ones which is why Racal used them in the first place :^)

As Todd said there are two there very close together, but they are the same value. Just get the new one the right way round or you'll have another bang :^)

73

Dan

1460. RE: [Racal6790GM] Help needed ID'ing a cap on the A2 board!

Yahoo group: Racal6790GM
Date: 2010-03-12 18:20:06 UTC
From: darrell huth
Topic: 1454 Message: 1460

Lucky for me I have a Frys nearby, They usually have a pretty good selection. ...Thanks Dan!

> To: Racal6790GM@yahoogroups.com
> From: danrae@verizon.net
> Date: Fri, 12 Mar 2010 10:11:22 -0800
> Subject: Re: [Racal6790GM] Help needed ID'ing a cap on the A2 board!
>
>
> Darrell, anything from 10 to 47 µF at 25 Volts will get you going again,
> I doubt you'll find any tantalums at Radio Shack. Worth getting one in
> there though eventually, they do have better performance as decoupling
> caps than regular ones which is why Racal used them in the first place :^)
>
> As Todd said there are two there very close together, but they are the
> same value. Just get the new one the right way round or you'll have
> another bang :^)
>
> 73
>
> Dan
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

_____
The New Busy is not the old busy. Search, chat and e-mail from your inbox.
http://www.windowslive.com/campaign/thenewbusy?ocid=PID27925::T:WLMTAGL:ON:WL:en-US:WM_HMP:032010_3

1461. Test

Yahoo group: Racal6790GM
Date: 2010-03-15 15:36:27 UTC
From: Jon
Topic: 1461 Message: 1461

Test
Am I blocked here also?
Test

1462. Re: [Racal6790GM] Re: Want:: Looking for an RA6790/GM

Yahoo group: Racal6790GM
Date: 2010-03-05 01:06:26 UTC
From: FRANCIS CARCIA
Topic: 1448 Message: 1462

yea, if you don't mind their rip prices.
That 6793 they have is beautiful but a tad steep.
--- On Thu, 3/4/10, j.hafele <j.hafele@...> wrote:

From: j.hafele <j.hafele@...>
Subject: [Racal6790GM] Re: Want:: Looking for an RA6790/GM
To: Racal6790GM@yahoogroups.com
Date: Thursday, March 4, 2010, 6:41 PM

--- In Racal6790GM@ yahoogroups. com, "ve7igz" <mancity@... > wrote:
>
> Hi, I am new to this group and am hoping some kind soul out there has a nice condition RA6790/GM with a basic set of filters that they are looking to sell for a reasonable price, let me know what you have and how many beer tokens you require.
>
> thanks.
>
> Rob VA7UK
> Abbotsford,BC.
>
Rob -
Check out Toronto Surplus and Scientific`s website. They do have units in stock and also stock a decent amount of filters. They are really great people to do business with and are extremely helpful. Just type in the word ` RACAL ` in the search box and you will see the 6790s listed. Good luck,
..... John.

1463. Re: Want:: Looking for an RA6790/GM

Yahoo group: Racal6790GM
Date: 2010-03-17 17:24:42 UTC
From: baronstom
Topic: 1448 Message: 1463

Well I guess that if the worst that can be said is that their prices might not be to your individual taste, then I would call that a plus. Seems that their customer support and quality of equipment are not in question, just the level of pricing in one persons opinion. Most buyers (myself encluded) will pay a premium for just those 2 attributes alone. Then you are also dealing with a store front business on top of it all. I really don't see any real negatives here except if one has short arms and deep pockets.

--- In Racal6790GM@yahoogroups.com, FRANCIS CARCIA <carcia@...> wrote:
>
> yea, if you don't mind their ripÂ prices.
> That 6793 they have is beautiful but a tad steep.
> --- On Thu, 3/4/10, j.hafele <j.hafele@...> wrote:
>
>
> From: j.hafele <j.hafele@...>
> Subject: [Racal6790GM] Re: Want:: Looking for an RA6790/GM
> To: Racal6790GM@yahoogroups.com
> Date: Thursday, March 4, 2010, 6:41 PM
>
>
> Â
>
>
>
>
>
> --- In Racal6790GM@ yahoogroups. com, "ve7igz" <mancity@ > wrote:
> >
> > Hi, I am new to this group and am hoping some kind soul out there has a nice condition RA6790/GM with a basic set of filters that they are looking to sell for a reasonable price, let me know what you have and how many beer tokens you require.
> >
> > thanks.
> >
> > Rob VA7UK
> > Abbotsford,BC.
> >
> Rob -
> Check out Toronto Surplus and Scientific`s website. They do have units in stock and also stock a decent amount of filters. They are really great people to do business with and are extremely helpful. Just type in the word ` RACAL ` in the search box and you will see the 6790s listed. Good luck,
> ..... John.
>

1464. RE: [Racal6790GM] Re: Want:: Looking for an RA6790/GM

Yahoo group: Racal6790GM
Date: 2010-03-18 13:36:54 UTC
From: Carcia, Francis A HS
Topic: 1448 Message: 1464

Yes, I was happy with their quality and service.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of baronstom
Sent: Wednesday, March 17, 2010 1:25 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Want:: Looking for an RA6790/GM

Well I guess that if the worst that can be said is that their prices might not be to your individual taste, then I would call that a plus. Seems that their customer support and quality of equipment are not in question, just the level of pricing in one persons opinion. Most buyers (myself encluded) will pay a premium for just those 2 attributes alone. Then you are also dealing with a store front business on top of it all. I really don't see any real negatives here except if one has short arms and deep pockets.

--- In Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com> , FRANCIS CARCIA <carcia@...> wrote:
>
> yea, if you don't mind their ripÂ prices.
> That 6793 they have is beautiful but a tad steep.
> --- On Thu, 3/4/10, j.hafele <j.hafele@...> wrote:
>
>
> From: j.hafele <j.hafele@...>
> Subject: [Racal6790GM] Re: Want:: Looking for an RA6790/GM
> To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
> Date: Thursday, March 4, 2010, 6:41 PM
>
>
> Â
>
>
>
>
>
> --- In Racal6790GM@ yahoogroups. com, "ve7igz" <mancity@ > wrote:
> >
> > Hi, I am new to this group and am hoping some kind soul out there has a nice condition RA6790/GM with a basic set of filters that they are looking to sell for a reasonable price, let me know what you have and how many beer tokens you require.
> >
> > thanks.
> >
> > Rob VA7UK

> > Abbotsford,BC.
> >
> Rob -
> Check out Toronto Surplus and Scientific`s website. They do have units in stock and also stock a decent amount of filters. They are really great people to do business with and are extremely helpful. Just type in the word ` RACAL ` in the search box and you will see the 6790s listed. Good luck,
> ..... John.
>

1465. Re: Want:: Looking for an RA6790/GM

Yahoo group: Racal6790GM
Date: 2010-03-18 18:02:28 UTC
From: dakhebay
Topic: 1448 Message: 1465

And Yes, I was happy with their quality and service too.

1466. test

Yahoo group: Racal6790GM
Date: 2010-03-18 21:35:09 UTC
From: Jon
Topic: 1466 Message: 1466

one more test.

1467. Re: Want:: Looking for an RA6790/GM (t2)

Yahoo group: Racal6790GM
Date: 2010-03-18 18:21:30 UTC
From: Jon
Topic: 1448 Message: 1467

One advantage that retailers offers
is an oppertunity for others and more
people to buy a 'premium' radio than
does closed groups likes this here.

this can also be said about the xBay places.
it offers the radios to a much wider customer base
than e-lists could ever hope to.

I have watch the discussion threads on some of the other revceiver
related lists and really must conclude that some people
resent the fact that peaple who arent of their little
excluseive club can get there hands on stuff as well
and not be be-holden to a select eleet.
(no names shall i mention)

(try number 2, via web interface this time)

1468. AF/RF Meter & Audio Out Question

Yahoo group: Racal6790GM
Date: 2010-03-21 01:50:13 UTC
From: baronstom
Topic: 1468 Message: 1468

I'm sure these are dumb novice questions but I'll ask anyway.

#1
When the meter is in the AF mode & it displays -10 0 +10 AF what and or how does it give a display? I put it in AF mode & have not found a way to get the meter to register. (RF mode works fine).

#2
The AF front panel control varies the phone jack level. Does it also vary the 8 ohm speaker at J3? If not, how does one control the audio out if its pre set to 1 watt? (Do not have a speaker connected yet).

Thanks
Tom

1469. Re: [Racal6790GM] AF/RF Meter & Audio Out Question

Yahoo group: Racal6790GM
Date: 2010-03-21 02:15:30 UTC
From: Dan Rae
Topic: 1468 Message: 1469

baronstom wrote:
> I'm sure these are dumb novice questions but I'll ask anyway.
>
> #1
> When the meter is in the AF mode & it displays -10 0 +10 AF what and or how does it give a display? I put it in AF mode & have not found a way to get the meter to register. (RF mode works fine).
>
It measures the line output level. 0 dBm is 1 milliwatt into 600 Ohms.
There is a little preset pot to adjust it on the front panel.
> #2
> The AF front panel control varies the phone jack level. Does it also vary the 8 ohm speaker at J3?
Yes.

The manual with all these answers and many many more is available for
download, free.

dr

1470. Re: AF/RF Meter & Audio Out Question

Yahoo group: Racal6790GM
Date: 2010-03-21 02:55:23 UTC
From: baronstom
Topic: 1468 Message: 1470

I have already downloaded the complete manual and have paid my dues, reading on the "Throne" until my legs fell asleep. I always "read the docs" first and then take all the covers of to admire my new "toy" and Easter Egg it for problems from shipping. Then after that I throw the master blaster switch. Myself and another member on this group are both getting (New to us) 6790's. I was the lucky one to get mine first (I'm the test bed)!

Now to the manual. Page 3-3 para. 3.2.4 AF Gain Potentiometer - "This control has no effect on audio signal level output through AF OUT connector J3." seemed fairly clear to me. In the interim I've done the field expediency rapair with 2 cut paper clips & jumpers to J3. GUESS WHAT! The AF Pot DOES control the audio signal!!!!

Is there someplace else in the manual that says that it does control the audio out?

As to the AF meter. I can find no place that tell me that that is an indication of Line Output Level only. I can see on page 2-5 para. 2.3.1.4 sub. 2. - "The amplitude level is adjustable from front panel."

I'll be the first one to say "Read the docs" then ask questions. One of my pet gripes is peolpe who the first thing they do is plug it in, throw the switch and wonder why their little world came crashing down in a cloumn of resistor smoke!!!

Thanks for your help & looking forward to the page, para. numbers that myself & my friend were unable to find.

Thanks again guys for the fast replies.

Tom

--- In Racal6790GM@...m, Dan Rae <danrae@...> wrote:
>
> baronstom wrote:
> > I'm sure these are dumb novice questions but I'll ask anyway.
> >
> > #1
> > When the meter is in the AF mode & it displays -10 0 +10 AF what and or how does it give a display? I put it in AF mode & have not found a way to get the meter to register. (RF mode works fine).
> >
> It measures the line output level. 0 dBm is 1 milliwatt into 600 Ohms.
> There is a little preset pot to adjust it on the front panel.
> > #2
> > The AF front panel control varies the phone jack level. Does it also vary the 8 ohm speaker at J3?
> Yes.
>
> The manual with all these answers and many many more is available for
> download, free.

>
> dr
>

1471. message confirmation

Yahoo group: Racal6790GM
Date: 2010-03-22 00:56:13 UTC
From: pedit@aol.com
Topic: 1471 Message: 1471

This is to initiate the email contact with members.

1472. Looking for a Recommendation for a Speaker/s

Yahoo group: Racal6790GM
Date: 2010-03-23 01:28:42 UTC
From: vulcannomad1170
Topic: 1472 Message: 1472

Hi, I'm new to the group and I'm anxiously waiting for my Racal 6790/GM to arrive. I just recently purchased an Equipment rack and I'm looking for a good speaker to hook up with the Racal. Looking for Suggestions.
thanks,
Vulcannomad

1473. RE: [Racal6790GM] Looking for a Recommendation for a Speaker/s

Yahoo group: Racal6790GM
Date: 2010-03-24 01:18:45 UTC
From: David
Topic: 1472 Message: 1473

For my receivers, I use a Sounds Sweet speaker (www.soundssweet.com), as well as some old, small Radio Shack metal-cased two-way speakers with a 3.5 inch woofer similar to this (http://www.radioshack.com/product/index.jsp?productId=3229236#tabsetBasic) that I caught on sale years ago. The Sounds Sweet is kinda pricey, but, IMHO, is an excellent speaker for all purposes. My small RS speakers sound good, too -- my 6790 is hooked up to one of them and the sound pleases me. Because the RS speakers have tweeters (and the Sounds Sweet purposely does not), you'll hear a little more high frequency hiss on less than strong signals, but this can sometimes be a blessing in rooting out tough DX catches.

Good luck and have fun with your new 6790!

David in Oklahoma City

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of vulcannomad1170
Sent: Monday, March 22, 2010 8:29 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Looking for a Recommendation for a Speaker/s

Hi, I'm new to the group and I'm anxiously waiting for my Racal 6790/GM to arrive. I just recently purchased an Equipment rack and I'm looking for a good speaker to hook up with the Racal. Looking for Suggestions.
thanks,
Vulcannomad

1474. Re: [Racal6790GM] Looking for a Recommendation for a Speaker/s

Yahoo group: Racal6790GM
Date: 2010-03-23 23:26:26 UTC
From: HUNTER BLANK
Topic: 1472 Message: 1474

I use an old Drake MS-4 with my 6790. It sounds fantastic. You will find that any good speaker will sound very good. The audio section of this radio is quite impressive. Consider the Clear Speech speaker with audio DSP.

----- Original Message -----
From: vulcannomad1170<mailto:pedit@aol.com>
To: Racal6790GM@yahoogroups.com<mailto:Racal6790GM@yahoogroups.com>
Sent: Monday, March 22, 2010 7:28 PM
Subject: [Racal6790GM] Looking for a Recommendation for a Speaker/s

Hi, I'm new to the group and I'm anxiously waiting for my Racal 6790/GM to arrive. I just recently purchased an Equipment rack and I'm looking for a good speaker to hook up with the Racal. Looking for Suggestions.
thanks,
Vulcannomad

1475. Re: Looking for a Recommendation for a Speaker/s

Yahoo group: Racal6790GM
Date: 2010-03-24 02:18:00 UTC
From: Randy
Topic: 1472 Message: 1475

--- In Racal6790GM@yahoogroups.com, "vulcannomad1170" <pedit@...> wrote:
>
> Hi, I'm new to the group and I'm anxiously waiting for my Racal 6790/GM to arrive. I just recently purchased an Equipment rack and I'm looking for a good speaker to hook up with the Racal. Looking for Suggestions.
> thanks,
> Vulcannomad
>

Ed,
Welcome to the group. Let me second the opinion in favor of the Sounds Sweet. I also own the Clear Speech speaker which is very good as is the Drake MS-4. However, the Sounds Sweet works beautifully with the 6790 as it allows the excellent audio to come through. When using with one of the wider filters, the AM sounds like broadcast quality audio and is very impressive. I use the Sounds Sweet will all my receivers and have a switch so that I can select the audio source from each receiver.

As already mentioned, the Sounds Sweet tends toward the midrange and bass side of the audio spectrum. I like the speaker because it is very efficient and can also be used on radios with limited output like handheld scanners. The Sounds Sweet does show up used from time to time for about $100, but it well worth the price IMHO.

Enjoy your Racal, Ed, regardless of your choice of speaker!

Randy

1476. RE: [Racal6790GM] Looking for a Recommendation for a Speaker/s

Yahoo group: Racal6790GM
Date: 2010-03-24 01:45:48 UTC
From: tony dinkel
Topic: 1472 Message: 1476

I like motorola Micor type plastic speakers. They go for about 10 bucks on ebay. They are perfect for the power and the audio passband.
tdwb6mie

To: Racal6790GM@yahoogroups.com
From: okdavid55@...
Date: Tue, 23 Mar 2010 20:18:45 -0500
Subject: RE: [Racal6790GM] Looking for a Recommendation for a Speaker/s

For my receivers, I use a Sounds Sweet speaker (www.soundssweet.com), as well as some old, small Radio Shack metal-cased two-way speakers with a 3.5 inch woofer similar to this (http://www.radioshack.com/product/index.jsp?productId=3229236#tabsetBasic) that I caught on sale years ago. The Sounds Sweet is kinda pricey, but, IMHO, is an excellent speaker for all purposes. My small RS speakers sound good, too -- my 6790 is hooked up to one of them and the sound pleases me. Because the RS speakers have tweeters (and the Sounds Sweet purposely does not), you'll hear a little more high frequency hiss on less than strong signals, but this can sometimes be a blessing in rooting out tough DX catches.

Good luck and have fun with your new 6790!

David in Oklahoma City

From:
Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of vulcannomad1170

Sent: Monday, March 22, 2010 8:29 PM

To: Racal6790GM@yahoogroups.com

Subject: [Racal6790GM] Looking for a Recommendation for a Speaker/s

Hi, I'm new to the group and I'm anxiously
waiting for my Racal 6790/GM to arrive. I just recently purchased an Equipment rack and I'm looking for a good speaker to hook up with the Racal. Looking for Suggestions.

thanks,

Vulcannomad

The New Busy is not the old busy. Search, chat and e-mail from your inbox.
http://www.windowslive.com/campaign/thenewbusy?ocid=PID27925::T:WLMTAGL:ON:WL:en-US:WM_HMP:032010_3

1477. Help - hello group owner

Yahoo group: Racal6790GM
Date: 2010-03-24 13:43:08 UTC
From: Jon
Topic: 1477 Message: 1477

Am seeking contact with this group's owner
and/or moderator.

Several attempts to send emails directly to the
listed email address (Racal6790GM-owner@yahoogroups.com)
have gone un-recognized.

As have 4 to 6 attempts to provide answers to
questions that have been asked here.

1478. Re: Looking for a Recommendation for a Speaker/s

Yahoo group: Racal6790GM
Date: 2010-03-25 01:36:34 UTC
From: vulcannomad1170
Topic: 1472 Message: 1478

--- In Racal6790GM@yahoogroups.com, tony dinkel <tonydinkel47@...> wrote:
>
>
> I like motorola Micor type plastic speakers. They go for about 10 bucks on ebay. They are perfect for the power and the audio passband.
> tdwb6mie
>
> To: Racal6790GM@yahoogroups.com
> From: okdavid55@...
> Date: Tue, 23 Mar 2010 20:18:45 -0500
> Subject: RE: [Racal6790GM] Looking for a Recommendation for a Speaker/s
>
> Thanks for the Link. They look good.
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> For my receivers, I use a Sounds Sweet speaker (www.soundssweet.com), as well as some
> old, small Radio Shack metal-cased two-way speakers with a 3.5 inch woofer similar
> to this (http://www.radioshack.com/product/index.jsp?productId=3229236#tabsetBasic
>) that I caught on sale years ago. The Sounds Sweet is kinda pricey, but,
> IMHO, is an excellent speaker for all purposes. My small RS speakers sound
> good, too -- my 6790 is hooked up to one of them and the sound pleases
> me. Because the RS speakers have tweeters (and the Sounds Sweet purposely
> does not), you'll hear a little more high frequency hiss on less than
> strong signals, but this can sometimes be a blessing in rooting out tough DX
> catches.
>
> Good luck and have fun with your new 6790!
>
> David in Oklahoma City
>
> From:
> Racal6790GM@yahoogroups.com [mailto:Racal6790GM@...m] On Behalf
> Of vulcannomad1170
>
> Sent: Monday, March 22, 2010 8:29 PM
>
> To: Racal6790GM@yahoogroups.com
>
> Subject: [Racal6790GM] Looking for a Recommendation for a Speaker/s
>

> Hi, I'm new to the group and I'm anxiously
> waiting for my Racal 6790/GM to arrive. I just recently purchased an Equipment
> rack and I'm looking for a good speaker to hook up with the Racal. Looking for
> Suggestions.
>
> thanks,
>
> Vulcannomad
>
> _____
> The New Busy is not the old busy. Search, chat and e-mail from your inbox.
> http://www.windowslive.com/campaign/thenewbusy?ocid=PID27925::T:WLMTAGL:ON:WL:en-US:WM_H

MP:032010_3
>

1479. Re: Looking for a Recommendation for a Speaker/s

Yahoo group: Racal6790GM
Date: 2010-03-25 01:40:50 UTC
From: vulcannomad1170
Topic: 1472 Message: 1479

--- In Racal6790GM@yahoogroups.com, "vulcannomad1170" <pedit@...> wrote:
>
> Hi, I'm new to the group and I'm anxiously waiting for my Racal 6790/GM to arrive. I just recently purchased an Equipment rack and I'm looking for a good speaker to hook up with the Racal. Looking for Suggestions.
> thanks,
> Vulcannomad
>
Thanks for your all your recomendations. I'm looking to get my Racal tomorrow. Unfortunately I maxed out my space in my equipment rack. I actually have a spare $10 Radio shack/MFJ small speaker. The Sound Sweet I'm really curious about and may look into using it as a main speaker for all my rigs, I'll have to look into a audio switcher or splitter of some type.

1480. Re: [Racal6790GM] Re: Looking for a Recommendation for a Speaker/s

Yahoo group: Racal6790GM
Date: 2010-03-25 01:53:31 UTC
From: Tom Frobase
Topic: 1472 Message: 1480

I have several radios in the shack and I was always adding another individual speaker. Several years ago I found mixer from a company called Lectrosonic the unit I bought was an AM8 it has 8-600 ohm Mike/Line inputs, 2 line inputs and 4/600 ohm outputs. It is a 1U rack cabinet and is controlled through a PC with a serial connection. The software is free. I now have one set of Boston audio speakers driven by a stereo 16 watt amp that connects via the mixer to all of my radio's mono as well as stereo coming out of the PC. I use one of the extra outputs to selectively drive my Timewave DSP. and wrap it around back into an input. The mixer has a function that selects the loudest signal so in most cases I turn up the respective radio volume rather than using the mixer controls. There is another company called Rane that makes similar equipment. All can be found relatively inexpensively on eBay. I later found a Lectrosonic 4 channel DSP module that has a 3rd octave filter built in as well as a lot of other functionality. This might be overkill for you application, but this is how I listen to my 2 Racal's and I run the radio's through the same PC the mixer is on ... 73, tom, N3LLL

>
> Thanks for your all your recomendations. I'm looking to get my Racal
> tomorrow. Unfortunately I maxed out my space in my equipment rack. I
> actually have a spare $10 Radio shack/MFJ small speaker. The Sound
> Sweet I'm really curious about and may look into using it as a main
> speaker for all my rigs, I'll have to look into a audio switcher or
> splitter of some type.
>
>

1481. Re: [Racal6790GM] Re: Looking for a Recommendation for a Speaker/s

Yahoo group: Racal6790GM
Date: 2010-03-25 02:30:55 UTC
From: Bob Betts
Topic: 1472 Message: 1481

Hi Tom and All:
I don't think you can "overkill' the audio reproduction system. It is what it is, or should be, for your own personal enjoyment. I use a short rack full of old Bozak mixers and EQ that used to serve as a remote studio. Feeding the Bozak monitors serves as a very enjoyable system for long-term listening. Sometimes external DSP is required and sometimes just some EQ adjustments can compensate for propagation and atmospheric conditions.
Of course, the Racal has great recovered audio, so it does take some amount of external equipment to not have the audio be the weak link in the chain.
This is a far cry from the old days in the Signal Corps where we sat in front of an R-390A with GI-issued headphones ... not exactly hi-fidelity.

Bob, N1KPR

http://www.bobsamerica.com
Music, Audio, Radio
"It's all good."

--- On Wed, 3/24/10, Tom Frobase <tfrobase@...> wrote:

 This might be
overkill for you application, but this is how I listen to my 2 Racal's
and I run the radio's through the same PC the mixer is on ... 73, tom, N3LLL

1482. Re: [Racal6790GM] Looking for a Recommendation for a Speaker/s

Yahoo group: Racal6790GM
Date: 2010-03-25 12:16:46 UTC
From: Tom Frobase
Topic: 1472 Message: 1482

Oh, my Bozak's are on the book shelf behind me hooked to my Fisher
tube amp. Man after my own taste 73, tom, N3LLL

On 3/24/10, Bob Betts <rwbetts@sbcglobal.net> wrote:
> Hi Tom and All:
> I don't think you can "overkill' the audio reproduction system. It is what
> it is, or should be, for your own personal enjoyment. I use a short rack
> full of old Bozak mixers and EQ that used to serve as a remote studio.
> Feeding the Bozak monitors serves as a very enjoyable system for long-term
> listening. Sometimes external DSP is required and sometimes just some EQ
> adjustments can compensate for propagation and atmospheric conditions.
> Of course, the Racal has great recovered audio, so it does take some amount
> of external equipment to not have the audio be the weak link in the chain.
> This is a far cry from the old days in the Signal Corps where we sat in
> front of an R-390A with GI-issued headphones ... not exactly hi-fidelity.
>
> Bob, N1KPR
>
>
> http://www.bobsamerica.com
> Music, Audio, Radio
> "It's all good."
>
> --- On Wed, 3/24/10, Tom Frobase <tfrobase@...> wrote:
>
>
>
>
>
> This might be
> overkill for you application, but this is how I listen to my 2 Racal's
> and I run the radio's through the same PC the mixer is on ... 73, tom, N3LLL
>
>
>

--
Sent from my mobile device

1483. Re: [Racal6790GM] Looking for a Recommendation for a Speaker/s

Yahoo group: Racal6790GM
Date: 2010-03-25 14:24:32 UTC
From: Bob Betts
Topic: 1472 Message: 1483

Tom and Group:
Good for you. Good audio makes all the difference in the world. We designed and built many special applications communications speaker systems for various government agencies. The comms people in the Signal Corps, US Navy, NASA, etc. realized that audio preconditioning and controlled response was an important part of the weak signal and/or high-noise signal recovery systems. Also, the aforementioned listener fatigue factor. I was chief engineer there for 17 years and learned a lot about the pre-DSP signal conditioning realm. It's a very interesting facet of the hobby, although often overlooked.
I'm currently building an audio recovery and management system for myself and will update my Web site as the project progresses. I've already finished the RF counterpart which can be found here, if you are interested.
http://www.bobsamerica.com/rfpassy.html
The unit shown is without all the internal module shields -- for photography purposes. This is the 6th version which utilizes all the R&D I discovered with previous models.
Back in the Signal Corps, one of our SIU's (surveillance & intercept unit) used similar devices to provide antenna matching, octave and 1/3 octave input filtering, analog noise filtering (hash, pulse, transient), and finally multicoupling outputs for feeding several receivers (a la Watkins-Johnson HFM-8). Since I don't get to play with all that great gear...for free, anymore, I figured it was time to build some of it. I have no idea where a lot of that stuff ended up -- probably demilled and scrapped, since I have never seen most of it show up at the various surplus houses, like the almost unknown ancillary units from Fairchild, Sorensen, Raytheon, Huges, et al, fused with the Collins, Racal, Harris, and W-J standard gear. That's a real shame for us hobbyists -- what amazing LP's we could have !!!.

Good signals to all,

Bob, N1KPR

--- On Thu, 3/25/10, Tom Frobase <tfrobase@gmail.com> wrote:

From: Tom Frobase <tfrobase@...>
Subject: Re: [Racal6790GM] Looking for a Recommendation for a Speaker/s
To: Racal6790GM@yahoogroups.com
Date: Thursday, March 25, 2010, 8:16 AM

Oh, my Bozak's are on the book shelf behind me hooked to my Fisher
tube amp. Man after my own taste 73, tom, N3LLL

1484. A sure way of checking the noise level ??

Yahoo group: Racal6790GM
Date: 2010-03-28 21:16:34 UTC
From: graham787
Topic: 1484 Message: 1484

A sure way of checking the noise level ??

Can anyone detail a repeatable test for the rx overall performance ..ie what should the noise level be ? Ive set the gains and avc levels up as per the handbook , the set works , but seems to be noise

Ive had the set for a while now and still cannot convince myself the set is good or bad in terms of noise / sensitivity .. some times the ra1778 out performs it (2.7 khz ssb though ..) .. the set has the usual filters and is fitted with usb / lsb 3 khz ssb filters .. 3 khz is a little wide for ssb , I tend to use the rx for data with the ma1723 etc ..ive a set of xtal 2.7 filters , but need to make up adaptor shoes .. and yet with the AM nets on 80 , the set dose a good job

Has anyone any figures that I can measure, with normal test-equipment .. ie calibrated signal generator ,switched attenuators , tex-t scope ,dvm , avo-8 , delt-4 sound card +pc etc , I need some sort of carrier on/off levels I can check , No rf-pre amp fitted, fitted with LF front end board ..

Tnx - Graham ..

1485. Re: [Racal6790GM] A sure way of checking the noise level ??

Yahoo group: Racal6790GM
Date: 2010-03-29 02:10:49 UTC
From: Jim Barber
Topic: 1484 Message: 1485

If your calibrated RF generator has a provision for 1000hz modulation,
you could use a software SINAD meter with your Delta sound card to get
(for example) the 12db SINAD sensitivity.

http://en.wikipedia.org/wiki/SINAD

[and]

http://comtekk.us/sinad.htm

In short, keep turning down your RF generator output until the measured
SINAD falls to 12db. The generator's output level at that point then
becomes your sensitivity measurement. (say 0.25uv for 12db SINAD, or
whatever the generator actually ends up at)

HTH,
Jim, N7CXI

graham787 wrote:
>
>
> A sure way of checking the noise level ??
>
> Can anyone detail a repeatable test for the rx overall performance ..ie
> what should the noise level be ? Ive set the gains and avc levels up as
> per the handbook , the set works , but seems to be noise
>
> Ive had the set for a while now and still cannot convince myself the set
> is good or bad in terms of noise / sensitivity .. some times the ra1778
> out performs it (2.7 khz ssb though ..) .. the set has the usual
> filters and is fitted with usb / lsb 3 khz ssb filters .. 3 khz is a
> little wide for ssb , I tend to use the rx for data with the ma1723 etc
> ..ive a set of xtal 2.7 filters , but need to make up adaptor shoes ..
> and yet with the AM nets on 80 , the set dose a good job
>
> Has anyone any figures that I can measure, with normal test-equipment ..
> ie calibrated signal generator ,switched attenuators , tex-t scope ,dvm
> , avo-8 , delt-4 sound card +pc etc , I need some sort of carrier on/off
> levels I can check , No rf-pre amp fitted, fitted with LF front end board ..
>
> Tnx - Graham ..
>
>

1486. Re: [Racal6790GM] A sure way of checking the noise level ??

Yahoo group: Racal6790GM
Date: 2010-03-29 02:19:13 UTC
From: Dan Rae
Topic: 1484 Message: 1486

graham787 wrote:
> A sure way of checking the noise level ??
>
> Can anyone detail a repeatable test for the rx overall performance ..ie what should the noise level be ? Ive set the gains and avc levels up as per the handbook , the set works , but seems to be noise
>
>
Graham, the best way is to measure the minimum detectable signal, (MDS)
using a signal generator and a true RMS voltmeter on the IF output. Not
what you can hear but the signal needed to give a 3dB increase in output
in a certain bandwidth. Then you can make meaningful comparisons.
> Ive had the set for a while now and still cannot convince myself the set is good or bad in terms of noise / sensitivity .. some times the ra1778 out performs it (2.7 khz ssb though ..)

Remember the RA1778 has an RF amplifier stage, so will have a lower MDS
than the GM by a few dB.

I may be unlucky with the local noise here, but it is always the
received noise that dominates over the Rx noise, by up to 30 or more dB
most of the time... Time to take up knitting :^(

Dan

1487. Re: [Racal6790GM] A sure way of checking the noise level ??

Yahoo group: Racal6790GM
Date: 2010-03-29 02:33:09 UTC
From: gewingerd@netzero.com
Topic: 1484 Message: 1487
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1488. RE: [Racal6790GM] A sure way of checking the noise level ??

Yahoo group: Racal6790GM
Date: 2010-03-29 12:21:18 UTC
From: Carcia, Francis A HS
Topic: 1484 Message: 1488

Disconnect your antenna. Does the noise go down? If so your noise figure is low enough.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of graham787
Sent: Sunday, March 28, 2010 5:17 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] A sure way of checking the noise level ??

A sure way of checking the noise level ??

Can anyone detail a repeatable test for the rx overall performance ..ie what should the noise level be ? Ive set the gains and avc levels up as per the handbook , the set works , but seems to be noise

Ive had the set for a while now and still cannot convince myself the set is good or bad in terms of noise / sensitivity .. some times the ra1778 out performs it (2.7 khz ssb though ..) .. the set has the usual filters and is fitted with usb / lsb 3 khz ssb filters .. 3 khz is a little wide for ssb , I tend to use the rx for data with the ma1723 etc ..ive a set of xtal 2.7 filters , but need to make up adaptor shoes .. and yet with the AM nets on 80 , the set dose a good job

Has anyone any figures that I can measure, with normal test-equipment .. ie calibrated signal generator ,switched attenuators , tex-t scope ,dvm , avo-8 , delt-4 sound card +pc etc , I need some sort of carrier on/off levels I can check , No rf-pre amp fitted, fitted with LF front end board ..

Tnx - Graham ..

1489. Racal APC #09621

Yahoo group: Racal6790GM
Date: 2010-03-31 01:41:27 UTC
From: j.hafele
Topic: 1489 Message: 1489

Hi gang -
Recently received an RA6790/GM and am curious about an assembly connected directly between the J1 Antenna connector and the RF Low Pass Filter. It is labeled thusly : Racal APC 09621 S/N184.
I assume that it is an input protection circuit but am curious, as to, it`s actual content. I was in the process of researching a good external protection unit and am wondering if this self-contained APC module is sufficient enough without need for third party protection.
Any input would be greatly appreciated - and - thanks in advance.
Regards, John.

1490. Re: A sure way of checking the noise level ??

Yahoo group: Racal6790GM
Date: 2010-03-30 12:55:20 UTC
From: graham787
Topic: 1484 Message: 1490

--- In Racal6790GM@yahoogroups.com, "graham787" <g0nbd@...> wrote:
>
> A sure way of checking the noise level ??
>
> Can anyone detail a repeatable test for the rx overall performance ..ie what should the noise level be ? Ive set the gains and avc levels up as per the handbook , the set works , but seems to be noise
>
> Ive had the set for a while now and still cannot convince myself the set is good or bad in terms of noise / sensitivity .. some times the ra1778 out performs it (2.7 khz ssb though ..) .. the set has the usual filters and is fitted with usb / lsb 3 khz ssb filters .. 3 khz is a little wide for ssb , I tend to use the rx for data with the ma1723 etc ..ive a set of xtal 2.7 filters , but need to make up adaptor shoes .. and yet with the AM nets on 80 , the set dose a good job
>
> Has anyone any figures that I can measure, with normal test-equipment .. ie calibrated signal generator ,switched attenuators , tex-t scope ,dvm , avo-8 , delt-4 sound card +pc etc , I need some sort of carrier on/off levels I can check , No rf-pre amp fitted, fitted with LF front end board ..
>
> Tnx - Graham ..
>

Thanks for the links and levels ,in the process of setting up te .. couple of question's :-

Setting the IF out to 10 dBm .. I do not (now) have access to a spectrum analyser , but I do have a calibrated RF level meter , at 10 dBm , will the channel noise alter the reading significantly .. ie , why is a spectrum analyser called to make the measurement other than making a spot frequency measurement ?? could use the ra1778 as a tunable filter if needed ?

Dan , Ok on the noise floor test, fitting a 50 ohm load should have a similar effect ? , When I set up using 5 meg Ae injection it was difficult to get the signal level down to a point where it could not be detected

I suppose its hard to quantify the 'problem' exactly , it may be just down to the mechanics of the Rx gain .. the Rx 'allays' detects the signals , hence I never fitted the rf-pre amp , but the s/n of recovered audio is not allays comfortable head phone listening .. could just be down to the bandwidth of the audio cct's ?
Tnx - G ..

1491. Re: [Racal6790GM] Re: A sure way of checking the noise level ??

Yahoo group: Racal6790GM
Date: 2010-03-31 18:49:27 UTC
From: Dan Rae
Topic: 1484 Message: 1491

graham787 wrote:

> Setting the IF out to 10 dBm .. I do not (now) have access to a spectrum analyser , but I do have a calibrated RF level meter , at 10 dBm , will the channel noise alter the reading significantly .. ie , why is a spectrum analyser called to make the measurement other than making a spot frequency measurement ?? could use the ra1778 as a tunable filter if needed ?
>
Hi Graham,
I'm getting a little confused here. I'm not sure what calls for +10 dBm and where. Yes, you can use a Voltmeter to measure the IF Output, and I'm not sure why a SA is specified and by whom. I do keep a Boonton RF Voltmeter in the closet simply to do these measurements, since that is what is called for usually in the UK manuals for IF / AGC adjustments.
>
> Dan , Ok on the noise floor test, fitting a 50 ohm load should have a similar effect ? , When I set up using 5 meg Ae injection it was difficult to get the signal level down to a point where it could not be detected
>
I think it was Frank that made the point that if the noise goes up when you connect an antenna / aerial then the receiver is probably sensitive enough and he is correct of course. And yes, I suppose you should substitute a load for the antenna, to be strictly rigorous about it, but the crude check works. Although I have never tried it, the soundcard SINAD measurement is also a good way of checking what is going on. I have an -hp- audio analyser that does SINAD measurements and it is a very good way of comparing different radios, and you can do it with ssb and cw modes, without a modulated signal generator. The same things apply though; you need the same bandwidth in both for meaningful comparisons. In any measurements like this though you will need a good quality signal generator / attenuator and maybe double screened cables once you get down to -130 dBm and lower.
> I suppose its hard to quantify the 'problem' exactly , it may be just down to the mechanics of the Rx gain .. the Rx 'allays' detects the signals , hence I never fitted the rf-pre amp , but the s/n of recovered audio is not allays comfortable head phone listening .. could just be down to the bandwidth of the audio cct's ?
>
>
Again I'm not sure what you mean here. With any receiver with all the filtering at the front of the IF strip you are going to get some broad band noise from the IF strip that will perhaps be noticeable with weak signals. This may be what you are hearing. Some receiver designs have filtering late in the IF strip for this very reason. There is some AF low pass filtering in the GM, I forget the details, but there is certainly an op amp somewhere in the audio path that does this. I've never done it but I'm sure that some outboard audio processing with DSP

or passive may help you here. But if you are using the radio for LF work with any of the soundcard modes as I see you are doing from Radcom, doesn't all this happen anyway?

Cheers,

Dan

1492. RE: [Racal6790GM] Re: A sure way of checking the noise level ??

Yahoo group: Racal6790GM
Date: 2010-03-31 18:51:37 UTC
From: Carcia, Francis A HS
Topic: 1484 Message: 1492

I thought it was -10 dBM

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Dan Rae
Sent: Wednesday, March 31, 2010 2:49 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Re: A sure way of checking the noise level ??

graham787 wrote:

> Setting the IF out to 10 dBm .. I do not (now) have access to a spectrum analyser , but I do have a calibrated RF level meter , at 10 dBm , will the channel noise alter the reading significantly .. ie , why is a spectrum analyser called to make the measurement other than making a spot frequency measurement ?? could use the ra1778 as a tunable filter if needed ?
>
Hi Graham,
I'm getting a little confused here. I'm not sure what calls for +10 dBm
and where. Yes, you can use a Voltmeter to measure the IF Output, and
I'm not sure why a SA is specified and by whom. I do keep a Boonton RF
Voltmeter in the closet simply to do these measurements, since that is
what is called for usually in the UK manuals for IF / AGC adjustments.
>
> Dan , Ok on the noise floor test, fitting a 50 ohm load should have a similar effect ? , When I set up using 5 meg Ae injection it was difficult to get the signal level down to a point where it could not be detected
>
I think it was Frank that made the point that if the noise goes up when
you connect an antenna / aerial then the receiver is probably sensitive
enough and he is correct of course. And yes, I suppose you should
substitute a load for the antenna, to be strictly rigorous about it, but
the crude check works. Although I have never tried it, the soundcard
SINAD measurement is also a good way of checking what is going on. I
have an -hp- audio analyser that does SINAD measurements and it is a
very good way of comparing different radios, and you can do it with ssb
and cw modes, without a modulated signal generator. The same things
apply though; you need the same bandwidth in both for meaningful
comparisons. In any measurements like this though you will need a good
quality signal generator / attenuator and maybe double screened cables
once you get down to -130 dBm and lower.
> I suppose its hard to quantify the 'problem' exactly , it may be just down to the mechanics of the Rx gain .. the Rx 'allays' detects the signals , hence I never fitted the rf-pre amp , but the s/n of recovered audio is not allays comfortable head phone listening .. could just be down to the bandwidth of the audio cct's ?
>

>
Again I'm not sure what you mean here. With any receiver with all the filtering at the front of the IF strip you are going to get some broad band noise from the IF strip that will perhaps be noticeable with weak signals. This may be what you are hearing. Some receiver designs have filtering late in the IF strip for this very reason. There is some AF low pass filtering in the GM, I forget the details, but there is certainly an op amp somewhere in the audio path that does this. I've never done it but I'm sure that some outboard audio processing with DSP or passive may help you here. But if you are using the radio for LF work with any of the soundcard modes as I see you are doing from Radcom, doesn't all this happen anyway?

Cheers,

Dan

1493. Re: Racal APC #09621

Yahoo group: Racal6790GM
Date: 2010-04-01 02:58:47 UTC
From: baronstom
Topic: 1489 Message: 1493

Hi John,

I also am very curious as to the internals of the APC. I've heard plenty about them. I also do not know the contents and am very curious about it. Hopefully someone here will reveal the answer & we can all sleep better tonight! "Smile"

Regards
Tom

--- In Racal6790GM@...m, "j.hafele" <j.hafele@...> wrote:
>
> Hi gang -
> Recently received an RA6790/GM and am curious about an assembly connected directly between the J1 Antenna connector and the RF Low Pass Filter. It is labeled thusly : Racal APC 09621 S/N184.
> I assume that it is an input protection circuit but am curious, as to, it`s actual content. I was in the process of researching a good external protection unit and am wondering if this self-contained APC module is sufficient enough without need for third party protection.
> Any input would be greatly appreciated - and - thanks in advance.
> Regards, John.
>

1494. Which Pre Amp To Buy?????

Yahoo group: Racal6790GM
Date: 2010-04-02 03:28:09 UTC
From: baronstom
Topic: 1494 Message: 1494

Need your expert input as to which Pre Amp to buy. I'm looking at the ICE & Kiwa units and need your inputs.

The ICE is model 130B & covers 1.8 to 30 MHZ
http://www.iceradioproducts.com/reconly.html

The Kiwa is Broadband Preamp Vs. 2.0 & covers .1 to 30 MHZ
http://kiwa.us/bbpreamp.html

The Racal has the VLF Prom which makes me "consider" the Kiwa as the ICE does not go below 1.8 MHZ. Is this something that should be of concern to me? Will I use the VLF feature? Not sure. "MAYBE". But if I do use the VLF will the Kiwa be of any use? Not looking to limit my "capabilities" by the use of the incorrect PreAmp. I'm thinking that the ICE will reduce my input signals below 1.8????

Any and all help that you guys can render will be greatly appreciated.

Regards
Tom

1495. Re: [Racal6790GM] Which Pre Amp To Buy?????

Yahoo group: Racal6790GM
Date: 2010-04-02 14:10:51 UTC
From: gewingerd@netzero.com
Topic: 1494 Message: 1495
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1496. 6790 Aignment

Yahoo group: Racal6790GM
Date: 2010-05-05 22:31:17 UTC
From: gldinnc
Topic: 1496 Message: 1496

I have two different alignment protocols. One is from Gary Wingerd and the other is from Maxhdrm2. Gary's seems far easier to perform. Does anyone have comments on the effectiveness of either approach?

Gordon, KA2NLM

1497. Re: AF/RF Meter & Audio Out Question

Yahoo group: Racal6790GM
Date: 2010-04-09 19:22:53 UTC
From: graham787
Topic: 1468 Message: 1497

As to the AF meter. I can find no place that tell me that that is an indication of Line Output Level only. I can see on page 2-5 para. 2.3.1.4 sub. 2. - "The amplitude level is adjustable from front panel."
>

>> That's right , only the line out level is monitored , as the telephone speech/data line systems all work round 0 dBm into 600 ohms .that would be taken as read

The volume control only affects the feed to the audio amp > speaker o/p .. I think unless you mod it , you cannot turn the speaker audio level to zero .. I fitted a switch in the speaker line .

G ..

--- In Racal6790GM@yahoogroups.com, "baronstom" <url4603rd@...> wrote:
>
> I have already downloaded the complete manual and have paid my dues, reading on the "Throne" until my legs fell asleep. I always "read the docs" first and then take all the covers of to admire my new "toy" and Easter Egg it for problems from shipping. Then after that I throw the master blaster switch. Myself and another member on this group are both getting (New to us) 6790's. I was the lucky one to get mine first (I'm the test bed)!
>
> Now to the manual. Page 3-3 para. 3.2.4 AF Gain Potentiometer - "This control has no effect on audio signal level output through AF OUT connector J3." seemed fairly clear to me. In the interim I've done the field expediency rapair with 2 cut paper clips & jumpers to J3. GUESS WHAT! The AF Pot DOES control the audio signal!!!!
>
> Is there someplace else in the manual that says that it does control the audio out?
>
> As to the AF meter. I can find no place that tell me that that is an indication of Line Output Level only. I can see on page 2-5 para. 2.3.1.4 sub. 2. - "The amplitude level is adjustable from front panel."
>
> I'll be the first one to say "Read the docs" then ask questions. One of my pet gripes is peolpe who the first thing they do is plug it in, throw the switch and wonder why their little world came crashing down in a cloumn of resistor smoke!!!
>
> Thanks for your help & looking forward to the page, para. numbers that myself & my friend were unable to find.
>
> Thanks again guys for the fast replies.
>
> Tom
>
> --- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@> wrote:
> >

> > baronstom wrote:
> > > I'm sure these are dumb novice questions but I'll ask anyway.
> > >
> > > #1
> > > When the meter is in the AF mode & it displays -10 0 +10 AF what and or how does it give a display? I put it in AF mode & have not found a way to get the meter to register. (RF mode works fine).
> > >
> > It measures the line output level. 0 dBm is 1 milliwatt into 600 Ohms.
> > There is a little preset pot to adjust it on the front panel.
> > > #2
> > > The AF front panel control varies the phone jack level. Does it also vary the 8 ohm speaker at J3?
> > Yes.
> >
> > The manual with all these answers and many many more is available for
> > download, free.
> >
> > dr
> >
>

1498. RACAL 6790/GM WTB

Yahoo group: Racal6790GM
Date: 2010-06-15 18:17:59 UTC
From: n4sub
Topic: 1498 Message: 1498

Hello to all--I am looking for a clean WORKING 6790/GM. Not too concerned about the filters-just a good WORKING radio. Email me off message board. Tnx-73-Terry

1499. Re: [Racal6790GM] RACAL 6790/GM WTB

Yahoo group: Racal6790GM
Date: 2010-06-16 11:45:55 UTC
From: TERRY/N4SuB
Topic: 1498 Message: 1499

The quest is OVER-found my new toy!! Tnx to all that responded. Now for the enjoyment!!
73-Terry N4SuB
---- n4sub <n4sub@...> wrote:

==========
Hello to all--I am looking for a clean WORKING 6790/GM. Not too concerned about the filters-just a good WORKING radio. Email me off message board. Tnx-73-Terry

1500. Help With W6GER Control Software

Yahoo group: Racal6790GM
Date: 2010-06-02 16:50:25 UTC
From: pidxr
Topic: 1500 Message: 1500

I am using the W6GER software to control my RA6790GM. In CW mode, once I choose BFO to set the BFO frequency, I cannot get it to turn off again using this software. It is permanently set to BFO and if I try to change frequency, it changes BFO frequency. If I hit Tune Rate, it flickers off but comes right back on. I can turn if off manually on the receiver but it is on every time I bring up the program. Anyone have a work-around for this issue?

Thanks

Mike, K7PI

1501. Need Cubic R3030 module

Yahoo group: Racal6790GM
Date: 2010-07-22 00:45:34 UTC
From: Joseph Pinner
Topic: 1501 Message: 1501

I am looking for the following module for my Cubic R3030 receiver:

Panel Interface module 2140-1116

or

Panel Interface module 2861-1102

Joseph Pinner +
818 Hill St
Kingston, TN 37763

KC5IJD / NNN0PHR

1502. Would Like To Purchase A Serial Cable For 6790

Yahoo group: Racal6790GM
Date: 2010-08-13 13:28:47 UTC
From: dxtrainc
Topic: 1502 Message: 1502

I'm looking to puchase a serial cable with the special round connector for my second Racal.

If anyone in the group has one sitting around, I can send your a PayPal payment ASAP.

I'm really enjoying the primary receiver, running it under software control. I also am running my SDR with a 455KHz to 12KHz downconverter.

I've put up a YouTube video showing the 6790 under WS 4.3 software control.

YouTube video:

http://www.youtube.com/watch?v=unP0v3oMAa4

As a public service, Dxtra has programmed and hosts an RSS feed that consolidates one year of shortwave radio news, inlcuding podcasts, from the "World of Radio":

http://www.dxtra.com

If you are using Internet Explorer you can see the latest week's news scrolling as well on the main page.

1503. Re: [Racal6790GM] Would Like To Purchase A Serial Cable For 6790

Yahoo group: Racal6790GM
Date: 2010-08-14 01:00:06 UTC
From: Tom Frobase
Topic: 1502 Message: 1503

Here is what I did and I am very happy with the solution.

I carefully desoldered the header on the communication circuit board removing it and the round connector as a single assembly. I then soldered jumpers for the baud rate and parity connections. Once the jumpers were in place I extended RX, TX and ground to a DB9 connector (ie 2,3 and 5) I dropped a couple of ferrite beads over the Tx and Rx lines to suppress any 232 noise The DB9 will fit in the remaining hole without modification.

If you ever sell the radio the mod can be removed quickly, although the new guy would probably want the DB9, so I would include the original cable with the radio.

Out of pocket cost $0.50 for the DB9. Compatibility with a PC 100%

If you need a schematic I can send you one ... 73, tom, N3LLL

On 8/13/2010 8:28 AM, dxtrainc wrote:
>
> I'm looking to puchase a serial cable with the special round connector
> for my second Racal.
>
> If anyone in the group has one sitting around, I can send your a
> PayPal payment ASAP.
>
> I'm really enjoying the primary receiver, running it under software
> control. I also am running my SDR with a 455KHz to 12KHz downconverter.
>
> I've put up a YouTube video showing the 6790 under WS 4.3 software
> control.
>
> YouTube video:
>
> http://www.youtube.com/watch?v=unP0v3oMAa4
>
> As a public service, Dxtra has programmed and hosts an RSS feed that
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>
>

1504. Re: Would Like To Purchase A Serial Cable For 6790

Yahoo group: Racal6790GM
Date: 2010-08-14 23:36:07 UTC
From: Richard
Topic: 1502 Message: 1504

I did the same here. Maybe not for pure of heart but sure makes life a lot simpler!!

Richard K5WOR

1505. Re: Would Like To Purchase A Serial Cable For 6790

Yahoo group: Racal6790GM
Date: 2010-08-13 18:54:26 UTC
From: graham787
Topic: 1502 Message: 1505

You should get one from RS components military plug range (google) but it only uses 3 wires could use a few pins ?

G..

--- In Racal6790GM@yahoogroups.com, "dxtrainc" <dxtrainc@...> wrote:
>
> I'm looking to puchase a serial cable with the special round connector for my second Racal.
>
> If anyone in the group has one sitting around, I can send your a PayPal payment ASAP.
>
> I'm really enjoying the primary receiver, running it under software control. I also am running my SDR with a 455KHz to 12KHz downconverter.
>
> I've put up a YouTube video showing the 6790 under WS 4.3 software control.
>
> YouTube video:
>
> http://www.youtube.com/watch?v=unP0v3oMAa4
>
> As a public service, Dxtra has programmed and hosts an RSS feed that consolidates one year of shortwave radio news, inlcuding podcasts, from the "World of Radio":
>
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>
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>

1506. OH dear its not working ....quite as it use to

Yahoo group: Racal6790GM
Date: 2010-08-09 19:21:39 UTC
From: graham787
Topic: 1506 Message: 1506

OH dear its not working ....quite as it use to

My 6790 seems to of developed a problem with the synthesiser
The set is on frequency , all modes ok , passes self test

However there is a random small change of frequency , which produces the affect of 'FM' modulation on a ssb signal and side bands on a single tone..audio has a random 'noisy capacitor' quality

Ive seen the fault lamp flicker , but not very often ,

My first thought is the precision regulator on the main oscillator board , this had drifted when I first brought the set ....

No much to go on at the moment , assume if i inject 455 to the final IF and the demodulated tone is ok , this puts the fault up stream

the memory battery has failed . working with no battery should not cause an problems ??

Tnx- G

1507. Re: [Racal6790GM] Would Like To Purchase A Serial Cable For 6790

Yahoo group: Racal6790GM
Date: 2010-08-15 22:27:20 UTC
From: Steven Walker
Topic: 1502 Message: 1507

Yes, for sure, I would appreciate and love a circuit and a few simple commands to get me started.
Even a pin to pin description would be a start.

Colin VK2WF

--- On Sat, 14/8/10, Tom Frobase <tfrobase@...> wrote:

From: Tom Frobase <tfrobase@...>
Subject: Re: [Racal6790GM] Would Like To Purchase A Serial Cable For 6790
To: Racal6790GM@yahoogroups.com
Cc: "dxtrainc" <dxtrainc@...>
Received: Saturday, 14 August, 2010, 11:00 AM

Here is what I did and I am very happy with the solution.

I carefully desoldered the header on the communication circuit board
removing it and the round connector as a single assembly. I then
soldered jumpers for the baud rate and parity connections. Once the
jumpers were in place I extended RX, TX and ground to a DB9
connector (ie 2,3 and 5) I dropped a couple of ferrite beads over
the Tx and Rx lines to suppress any 232 noise The DB9 will fit in
the remaining hole without modification.

If you ever sell the radio the mod can be removed quickly, although
the new guy would probably want the DB9, so I would include the
original cable with the radio.

Out of pocket cost $0.50 for the DB9. Compatibility with a PC 100%

If you need a schematic I can send you one ... 73, tom, N3LLL

On 8/13/2010 8:28 AM, dxtrainc wrote:

I'm looking to puchase a serial cable with the special
round connector for my second Racal.

If anyone in the group has one sitting around, I can send
your a PayPal payment ASAP.

I'm really enjoying the primary receiver, running it under
software control. I also am running my SDR with a 455KHz
to 12KHz downconverter.

I've put up a YouTube video showing the 6790 under WS 4.3
software control.

YouTube video:

http://www.youtube.com/watch?v=unP0v3oMAa4

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http://www.dxtra.com

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1508. New Racal RA6790/GM owner here

Yahoo group: Racal6790GM
Date: 2010-08-19 11:37:38 UTC
From: vy2pr@rocketmail.com
Topic: 1508 Message: 1508

I just received a new Racal from a very good eBay seller in MN. Price was good [buy-it-now], packing excellant, printed manual included and the Racal is in great shape. Hooked it up and the DXing began!

For example, this morning, at 5:55 a.m. ADT, I picked up loud and clear 960 CFAC Calgary AB. Almost all the way across North America. Now, I have picked up CFAC many times before [on my R-390A, Drake R8, RF Space SDR-IQ, R-392, R-75 etc.], but never earlier than September or later than March.

As you can guess, I'm a MW DXer. I'm also a ham, but MW is my big thing. Farthest away station on MW I've received was India on 1566 KHz, but that was at an October 2009 DXpedition along the north shore of PEI, using my DGS EWE antenna. Farthest away station I have DXed at my QTH was on November 13, 2009, 3 stations in Japan. That was using a Wellbrook 1530 mounted on a stand in my basement radio room phased [Quantum Phaser] with a LFE M601C active whip antenna located about 20 feet away from the house.

A question - given the membrane type keypads, would a good plastic protectant - such as Vinylex - be a good idea to protect the plastic from UV rays, cracking etc.?

Phil Rafuse VY2PR
Stratford PE Canada

1509. RA1792 Board Identification

Yahoo group: Racal6790GM
Date: 2010-08-20 09:35:08 UTC
From: hamfm1000
Topic: 1509 Message: 1509

Hi,
Sorry if this is a duplicate post.
RA1792 has the usual corroded processor board (ST82912).
In the box of spares there is an A6A2 board, which has a piggy back mod board on top.

The boards have a lot of chips in common, but there is no status LED or test points on the A6A2.

Anyone know if one is a replacement for the other or anything about these boards?

Photgraphs here;

http://groups.yahoo.com/group/Racal6790GM/photos/album/833802639/pic/list

Has anyone managed to revive a corroded processor board?

73
Tony
G6SMO
Sheffield
UK

1510. Re: [Racal6790GM] RA1792 Board Identification

Yahoo group: Racal6790GM
Date: 2010-08-20 14:32:46 UTC
From: Dan Rae
Topic: 1509 Message: 1510

hamfm1000 wrote:
> Hi,
> Sorry if this is a duplicate post.
> RA1792 has the usual corroded processor board (ST82912).
> In the box of spares there is an A6A2 board, which has a piggy back mod board on top.
>
> The boards have a lot of chips in common, but there is no status LED or test points on the A6A2.
>
> Anyone know if one is a replacement for the other or anything about these boards?
>
> Photgraphs here;
>
> http://groups.yahoo.com/group/Racal6790GM/photos/album/833802639/pic/list
>
> Has anyone managed to revive a corroded processor board?
>

Tony,

To answer the last question first, yes.

The one with three eproms and the triangular daughter board is an early one, pre LSI synth, pre BITE and will not work in the radio that the other one came from. The two eprom board is for the last version of the 1792 with the LSI synth, BITE and with all the extra stuff for signature analysis. Both firmware sets are for 1 Hz steps, the GB filter set and gpib interface card, although the triangular card is usually found with the SCORE interface, I thought.

There are several hundred different firmware versions, so even if you had a similar build A6A2 card, you would probably need to change the eproms. Although P88109 was the last firmware issued and a lot of the later radios were fitted with that version as upgrades.

Your best bet is to repair the card. New batteries with NiMH chemistry are available in the UK from RS, which will not leak. It is very hard to tell from the picture how much has been damaged, but it is possible to fix almost any amount of damage.

The leakage from the Nicad is an alkali, and can be neutralised with a scrub with diluted vinegar and a toothbrush, followed by thorough scrubbing and washing in water or propanol. It gets into any crevices, like under the 34 way connector and works away; you will see greenish blue crystals where it is worst. The damage starts with the VIAs and traces on the top just under the battery and in the area just above the

ST82912 silk screening. You may find open VIAs or traces where the alkali has got under the solder resist and dissolved the copper. Luckily the U13 and 15 ICs are not socketed, had they been in sockets they would certainly, the sockets that is, need replacing. Ditto for U6 and 10. I have seen damage to the DIP switch and also LEDs with a leg completely eaten through also IC pins open...

The technique is to test each board connection for continuity, I have a Fluke multimeter with a "beep" setting that makes this very easy, and where necessary bridge those that are open with a wire link underneath. An open VIA can be bridged with a small Z shaped wire through it, soldered top and bottom. It is usually the E-W connections under the battery that are affected, I have seen as few as one open and as many as twenty. In the worst cases I have seen the alkali run down the plastic groove under the card and attack the 50 way connector J2 at the far end and get into the 34 way IDC ribbon cable plug. From the lack of visible damage to J1 yours looks OK but do have a look for green bits on top of the board underneath J1. Yours looks like it was stored standing on it's back, so you may find that the damage has extended towards U1, 3, 5 and 7. Looking again I see a green / blue tinge there :^(

I have fixed more than a dozen of these boards so it is possible, but it does take time...

Good luck,

Dan

ac6ao / g3ncr

1511. Re: OH dear its not working ....quite as it use to

Yahoo group: Racal6790GM
Date: 2010-08-18 21:37:08 UTC
From: graham787
Topic: 1506 Message: 1511

Anone decode the fault lamps on the back of the front panel , looking from the front of the set ,ie standing infront of the display panel , I have -one- led flashing
in position -3- ie 00X0 ?

Tnx _ G.

--- In Racal6790GM@yahoogroups.com, "graham787" <g0nbd@...> wrote:
>
> OH dear its not working ....quite as it use to
>
> My 6790 seems to of developed a problem with the synthesiser
> The set is on frequency , all modes ok , passes self test
>
> However there is a random small change of frequency , which produces the affect of 'FM' modulation on a ssb signal and side bands on a single tone..audio has a random 'noisy capacitor' quality
>
> Ive seen the fault lamp flicker , but not very often ,
>
> My first thought is the precision regulator on the main oscillator board , this had drifted when I first brought the set ....
>
> No much to go on at the moment , assume if i inject 455 to the final IF and the demodulated tone is ok , this puts the fault up stream
>
> the memory battery has failed . working with no battery should not cause an problems ??
>
> Tnx- G
>

1512. Re: [Racal6790GM] Re: OH dear its not working ....quite as it use to

Yahoo group: Racal6790GM
Date: 2010-08-22 00:58:42 UTC
From: mparkinson1
Topic: 1506 Message: 1512

Run the reciever into the bite mode that will tell you what board is having a problem and then go from there.
Chances are you have some type of power supply issue bad caps somewhere a very common issue causing all kinds of problem.
Matt Parkinson Military Equipment & R 390A Depot Center

1513. Re: [Racal6790GM] Re: OH dear its not working ....quite as it use to

Yahoo group: Racal6790GM
Date: 2010-08-22 01:17:38 UTC
From: Dan Rae
Topic: 1506 Message: 1513

On 8/18/2010 2:37 PM, graham787 wrote:
> Anone decode the fault lamps on the back of the front panel , looking from the front of the set ,ie standing infront of the display panel , I have -one- led flashing
> in position -3- ie 00X0 ?
>
> Tnx _ G.
>
Graham, It shouldn't flash, just be off or on. The BFO OOL led is on in AM mode, naturally enough, this is normal. The one nearest the side of the radio is the spare and does nothing. The next one in is the reference / 20 MHz osc, then A8 (BFO) and the last one furthest in from the edge is for the A7 board the first LO.

BITE isn't going to help you much here I'm afraid.

I have seen that 20 MHz crystal age so much the fixed cap needed to be changed to get good lock at the correct voltage.

Good luck,

Dan

1514. Re: New Racal RA6790/GM owner here

Yahoo group: Racal6790GM
Date: 2010-08-22 01:46:17 UTC
From: vy2pr@rocketmail.com
Topic: 1508 Message: 1514

I've answered my own question - I applied a small amount of vinylex to a paper towel, then rubbed it on to both plastic membrane keyboards. I let it sit a few minutes, then gently buffed it with a clean paper towel. Looks good, feels good, and may provide some protection.

Do not spray direct on the keyboard - might run down behind the panel and hurt something. Spray the paper towel or cloth first. A little is good, too much might be trouble.

I had obtained the Vinylex a while back for my car's interior - some internet groups had recommended it highly. It does not leave the greasy film of some products, e.g. Armoural, when used in moderation.

Phil

--- In Racal6790GM@yahoogroups.com, "vy2pr@..." <vy2pr.phil@...> wrote in part:
>
> A question - given the membrane type keypads, would a good plastic protectant - such as Vinylex - be a good idea to protect the plastic from UV rays, cracking etc.?
>
> Phil Rafuse VY2PR
> Stratford PE Canada
>

1515. Re: [Racal6790GM] Re: OH dear its not working ....quite as it use to

Yahoo group: Racal6790GM
Date: 2010-08-22 09:14:36 UTC
From: Vaidanis
Topic: 1506 Message: 1515

Hi Graham,
it looks like PLL unlock, not sure if it's 1st or 2nd PLL LO.Do you have the service manual? I'll check schematics and get back...

Cheers,
Konstantinos

--- Στις Πέμ., 19/08/10, o/η graham787 <g0nbd@...> έγραψε:

Από: graham787 <g0nbd@...>
Θέμα: [Racal6790GM] Re: OH dear its not working ....quite as it use to
Προς: Racal6790GM@yahoogroups.com
Ημερομηνία: Πέμπτη, 19 Αύγουστος 2010, 0:37

Anone decode the fault lamps on the back of the front panel , looking from the front of the set ,ie standing infront of the display panel , I have -one- led flashing

in position -3- ie 00X0 ?

Tnx _ G.

--- In Racal6790GM@yahoogroups.com, "graham787" <g0nbd@...> wrote:

>

> OH dear its not working ....quite as it use to

>

> My 6790 seems to of developed a problem with the synthesiser

> The set is on frequency , all modes ok , passes self test

>

> However there is a random small change of frequency , which produces the affect of 'FM' modulation on a ssb signal and side bands on a single tone..audio has a random 'noisy capacitor' quality

>

> Ive seen the fault lamp flicker , but not very often ,

>

> My first thought is the precision regulator on the main oscillator board , this had drifted when I first brought the set ....

>

> No much to go on at the moment , assume if i inject 455 to the final IF and the demodulated tone is ok , this puts the fault up stream

>

> the memory battery has failed . working with no battery should not cause an problems ??

>

> Tnx- G

>

1516. Looking to sell: Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2010-08-23 02:35:06 UTC
From: ve7igz
Topic: 1516 Message: 1516

I have for sale an excellent condition Racal RA6790/GM communications receiver in perfect working condition and includes 300hz 1Khz 3.2Khz 6Khz and 20Khz filters. It has had new keypads, lcd's and new Lithium backup battery. It also has the LF eproms installed so it covers 10Khz to 30Mhz in 1Hz 10Hz and 100hz steps, photocopies of the manual are included and I am looking for $900 + shipping from BC Canada.

Rob.
VA7UK
VE7IGZ

1517. Re: OH dear its not working ....quite as it use to

Yahoo group: Racal6790GM
Date: 2010-08-22 10:24:46 UTC
From: graham787
Topic: 1506 Message: 1517

Thank's All

Dan >>>The one nearest the side
of the radio is the spare and does nothing. The next one in is the
reference / 20 MHz osc, then A8 (BFO) and the last one furthest in
from the edge is for the A7 board the first LO.<<<

If that is the bfo 'OOL' indicator .. that would fit the way the set is working , with 'fm' on ssb audio and (now) wrong setting of the ssb filters during self test ..this led is flickering with the severtity of the fault.

I have Manual TM RA6790/GM-3 DEC-1991, which I assume is the 'only' manual ? (are the board set-up's covered in lower level manual ?)

Tnx _ G.

--- In Racal6790GM@yahoogroups.com, "graham787" <g0nbd@...> wrote:
>
> Anone decode the fault lamps on the back of the front panel , looking from the front of the set ,ie standing infront of the display panel , I have -one- led flashing
> in position -3- ie 00X0 ?
>
> Tnx _ G.
>
> --- In Racal6790GM@yahoogroups.com, "graham787" <g0nbd@> wrote:
> >
> > OH dear its not working ....quite as it use to
> >
> > My 6790 seems to of developed a problem with the synthesiser
> > The set is on frequency , all modes ok , passes self test
> >
> > However there is a random small change of frequency , which produces the affect of 'FM' modulation on a ssb signal and side bands on a single tone..audio has a random 'noisy capacitor' quality
> >
> > Ive seen the fault lamp flicker , but not very often ,
> >
> > My first thought is the precision regulator on the main oscillator board , this had drifted when I first brought the set ....
> >
> > No much to go on at the moment , assume if i inject 455 to the final IF and the demodulated tone is ok , this puts the fault up stream
> >
> > the memory battery has failed . working with no battery should not cause an problems ??
> >
> > Tnx- G

> >
>

1518. Re: [Racal6790GM] Re: OH dear its not working ....quite as it use to

Yahoo group: Racal6790GM
Date: 2010-08-23 12:50:18 UTC
From: Dan Rae
Topic: 1506 Message: 1518

On 8/22/2010 3:24 AM, graham787 wrote:
> Thank's All
>
> Dan>>>The one nearest the side
> of the radio is the spare and does nothing. The next one in is the
> reference / 20 MHz osc, then A8 (BFO) and the last one furthest in
> from the edge is for the A7 board the first LO.<<<
>
> If that is the bfo 'OOL' indicator .. that would fit the way the set is working , with 'fm' on ssb audio and (now) wrong setting of the ssb filters during self test ..this led is flickering with the severtity of the fault.

Graham,
You can check which one is the BFO by going to AM mode and whereupon
the BFO one lights up. You can tell which is the A7 First LO by
unplugging the reference connection from the center of the board.

> I have Manual TM RA6790/GM-3 DEC-1991, which I assume is the 'only' manual ? (are the board set-up's covered in lower level manual ?)
>
> Tnx _ G.
>

Alignment is not covered in any of the TMs since they were designed for
military board swapping only. If you need details of how to set up any
of the boards I can send that to you direct. But if the BFO light is
flickering as you describe there is a fault in the control loop rather
than an alignment problem. With a 'scope look for a source of
instability within the loop.

And yes, it would screw up BITE since that uses the BFO and first LO to
measure the filter widths.

73

Dan

ac6ao / g3ncr

1519. Re: [Racal6790GM] Re: OH dear its not working ....quite as it use to

Yahoo group: Racal6790GM
Date: 2010-08-25 13:56:41 UTC
From: oscar873@aol.com
Topic: 1506 Message: 1519

matt,
Different subject.
51s-1
This is a limited slip shaft.
tuning knob shaft, housing, gear, concave washer, washer, and nut .
Do u know what the sequence is to assemble?

Al

-----Original Message-----
From: mparkinson1 <mparkinson1@...>
To: Racal6790GM@yahoogroups.com
Sent: Sat, Aug 21, 2010 5:58 pm
Subject: Re: [Racal6790GM] Re: OH dear its not working ....quite as it use to

Run the reciever into the bite mode that will tell you what board is having a problem and then go from there.
Chances are you have some type of power supply issue bad caps somewhere a very common issue causing all kinds of problem.
Matt Parkinson Military Equipment & R 390A Depot Center

1520. RA1792 :: Things are proceeding, but further advice appreciated

Yahoo group: Racal6790GM
Date: 2010-08-26 12:23:17 UTC
From: hamfm1000
Topic: 1520 Message: 1520

Hi All,
Thanks to Dan I now know a bit more about the processor boards and how to revive a corroded one.
This has been done and there's life in the set again now the corrosion has been tackled.

Now for the new request, well there's actually two...

1. BITE test
Anyone got details of how to do this and interpret the results.

2. Receive is only responding to strong signals.
Where to look for potential problems?

Help appreciated.

Thanks
Tony
G6XMO
Sheffield

1521. Re: [Racal6790GM] RA1792 :: Things are proceeding, but further advice appreciated

Yahoo group: Racal6790GM
Date: 2010-08-26 14:02:13 UTC
From: Dan Rae
Topic: 1520 Message: 1521

On 8/26/2010 5:23 AM, hamfm1000 wrote:
>
> 1. BITE test
> Anyone got details of how to do this and interpret the results.
BITE is covered in about six pages of my Maintenance manual, ref TH3416 1985, pages 14-4 to 14-9, too much to copy out, starting with a test of all the panel switches and on from there. This might help you with:
> 2. Receive is only responding to strong signals.
> Where to look for potential problems?
Which could be anywhere from a blown RF fuse or other problems in the A1 box, like a blown tantalum which I saw recently (again!), and onwards down the receive chain.

Doesn't Keith's site have some BITE details? It's been a while since I looked.

Best

Dan

ac6ao / g3ncr

1522. Re: [Racal6790GM] RA1792 :: Things are proceeding, but further advice appreciated

Yahoo group: Racal6790GM
Date: 2010-08-26 16:27:26 UTC
From: gewingerd@netzero.com
Topic: 1520 Message: 1522
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1523. MA6724 Exciter

Yahoo group: Racal6790GM
Date: 2010-08-27 01:28:36 UTC
From: vk5abc
Topic: 1523 Message: 1523

Hello All
Any one here come across or heard of or have a manual for a Racal MA6724 exciter made in the USA. What amplifier was used with it and what atu? The chassis has two connectors on the the back ATU and PA
the serial number is E2 so could this be a prototype.

73 Lee

1524. RA1792 Info : Vacation Time!

Yahoo group: Racal6790GM
Date: 2010-08-27 15:33:56 UTC
From: Tony Olewicz
Topic: 1524 Message: 1524

Thanks Gary and Dan for your help.

Its vacation time now (hurray!) - so the RA1792 is on hold until afterwards.

73
Tony

1525. Re: Looking to sell: Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2010-08-29 01:45:23 UTC
From: Robert Bell
Topic: 1516 Message: 1525

The Racal 6790/GM has now been sold, thanks for all the interest.

Rob.
VA7UK

--- In Racal6790GM@yahoogroups.com, "ve7igz" <mancity@...> wrote:
>
> I have for sale an excellent condition Racal RA6790/GM communications receiver in perfect working condition and includes 300hz 1Khz 3.2Khz 6Khz and 20Khz filters. It has had new keypads, lcd's and new Lithium backup battery. It also has the LF eproms installed so it covers 10Khz to 30Mhz in 1Hz 10Hz and 100hz steps, photocopies of the manual are included and I am looking for $900 + shipping from BC Canada.
>
> Rob.
> VA7UK
> VE7IGZ
>

1526. 6790 digital-like noise issues

Yahoo group: Racal6790GM
Date: 2010-08-31 15:02:09 UTC
From: VAIDANIS
Topic: 1526 Message: 1526

Hi all,
a friend of mine gave me a millitary R-2174(P)/URR version of RA6790. Unfortunately someone did a very bad repairing job on A6/A9/A8 boards. The short story is that receiver suffers from constant digital-like noise on all modes, and clicks are heard when a switch is pressed or encoder is turned. I've spent a lot of man-hours on trableshooting but with no success, please advise!!! I have tried the following: 1st+2nd mixers with external power supplies and HP synth generators as both LO's, FT897D as IF demodulator, no digital/clicking noise on 455KHz IF even with AGC at max so problem is not comming from A2/A3 mixers. When I turn 6790 PSU on (A4/A6/A7/A8/A9 boards) digital noise is heard on my 897D. I disconnect A4/A7/A8 boards to be sure that there is no noise comming from the PLLs but clicking noise is still there. I susspect A9 and/or A6 boards but not sure.... Any thoughts???

Konstantinos
SW1GSI

1527. Re: 6790 digital-like noise issues

Yahoo group: Racal6790GM
Date: 2010-08-31 16:24:53 UTC
From: cybersapient
Topic: 1526 Message: 1527

Konstantinos,

Sounds like there is a disconnected ground somewhere. It could also be mis-soldered bypass capacitors on any board. If you can look at the condition of the boards that may have been serviced, you may get an indication of where to concentrate your efforts. This sort of thing can be a poor (cold flow) solder joint, a disconnected wire, cable, or component lead, a surface-mount capacitor that is not precisely on it's pad (some leakage between power and signal paths)., a solder splash, or the metal "fingers" that make up RF gaskets on some of the "cans". Check all of the cans to make sure the bottoms are soldered to the ground plane(s) of each board, and that the caps (lids for the cans) are pressed down firmly- no open-gaps, or partially lifted corners. Check any coaxial cables that may travel from one unit assembly to another- push them in, or give them a tug and see if any of them move. Check the audio if you find something moved, you may get lucky and it was just something that got dislodged during the service/repair.

Go from simplest to fix, to hardest to fix.

This is a bit of a laundry list, but all these things can contribute to the noise you are hearing. Don't ignore the circuit assemblies that attach to the keyboards, nor the displays- much of what you hear may be keyboard polling, or addressing display segments/memory. Wiggle wires and cables and listen carefully to any change in sound. Spend extra time listening for changes in the audio as you move you hands around near the various assemblies to see if you can discern which assembly or assemblies are contributing to the issue. Concentrate in that area, and all cables and assemblies directly connected.

Hopefully, this will allow you to discover the root cause of the issue.

Regards,

Shane

--- In Racal6790GM@yahoogroups.com, "VAIDANIS" <sv1aku@...> wrote:
>
> Hi all,
> a friend of mine gave me a millitary R-2174(P)/URR version of RA6790. Unfortunately someone did a very bad repairing job on A6/A9/A8 boards. The short story is that receiver suffers from constant digital-like noise on all modes, and clicks are heard when a switch is pressed or encoder is turned. I've spent a lot of man-hours on trableshooting but with no success, please advise!!! I have tried the following: 1st+2nd mixers with external power supplies and HP synth generators as both LO's, FT897D as IF demodulator, no digital/clicking noise on 455KHz IF even with AGC at max so problem is not comming from A2/A3 mixers. When I turn 6790 PSU on (A4/A6/A7/A8/A9 boards) digital noise is heard on my 897D. I disconnect A4/A7/A8 boards to be sure that there is no noise comming from the PLLs but clicking noise is still there. I susspect A9 and/or A6 boards but not sure.... Any thoughts???
>
> Konstantinos

```
> SW1GSI
>
```

1528. Re: [Racal6790GM] Re: 6790 digital-like noise issues

Yahoo group: Racal6790GM
Date: 2010-08-31 16:44:00 UTC
From: gewingerd@netzero.com
Topic: 1526 Message: 1528
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1529. Re: [Racal6790GM] Re: 6790 digital-like noise issues

Yahoo group: Racal6790GM
Date: 2010-08-31 22:22:22 UTC
From: Vaidanis
Topic: 1526 Message: 1529

Hi Gary,
ripple is much more less than 10mVpp. I resoldered some IC's on A6 board and now digital noise is less but still exists on the background. I think that I need to replace the processor board and perhaps A9, just to be sure.... any one available?

Thanks,
Konstantinos

--- Στις Τρίτ., 31/08/10, o/η gewingerd@netzero.com <gewingerd@...> έγραψε:

Από: gewingerd@... <gewingerd@...>
Θέμα: Re: [Racal6790GM] Re: 6790 digital-like noise issues
Προς: Racal6790GM@yahoogroups.com
Ημερομηνία: Τρίτη, 31 Αύγουστος 2010, 19:44

Check the ripple on the regulated power supply outputs, ripple should be less than 10 mV peak to peak.

Gary

Please note: message attached

From: "cybersapient" <sjustice7@...t>

To: Racal6790GM@yahoogroups.com

Subject: [Racal6790GM] Re: 6790 digital-like noise issues

Date: Tue, 31 Aug 2010 16:24:53 -0000

1530. Re: 6790 digital-like noise issues

Yahoo group: Racal6790GM
Date: 2010-09-01 08:13:30 UTC
From: i8iov
Topic: 1526 Message: 1530

Hi Kostantinos,

the 1792 (and the like) processor board is known to radiate digital noise, which can be picked up by whip antennas connected directly to the antenna connector.

What kind of antenna are you using in your tests? Try disconnecting it to see what happens, and try with an external antenna connected via coax cable.

Antonio I8IOV

--- In Racal6790GM@yahoogroups.com, Vaidanis <sv1aku@...> wrote:
>
> Hi Gary,
> ripple is much more less than 10mVpp. I resoldered some IC's on A6 board and now digital noise is less but still exists on the background. I think that I need to replace the processor board and perhaps A9,Â just to be sure.... any one available?
>
> Thanks,
> Konstantinos

1531. Re: [Racal6790GM] Re: 6790 digital-like noise issues

Yahoo group: Racal6790GM
Date: 2010-09-01 18:25:03 UTC
From: gewingerd@netzero.com
Topic: 1526 Message: 1531
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1532. Re: [Racal6790GM] 6790 digital-like noise issues

Yahoo group: Racal6790GM
Date: 2010-09-02 02:33:06 UTC
From: Tom Frobase
Topic: 1526 Message: 1532

Check the pot on the regulator, I had one that was noisy and caused a
similar problem ... tom, n3lll

On 9/1/10, gewingerd@... <gewingerd@...> wrote:
> Konstantinos,
>
> The only boards are on ebay and most of them have problems.
>
> Check the voltages and ripple on the A4 card, this board has built in
> regulators. Also the A6A2 card can be run by itself without the A6A1 card
> attached if LK1 is installed. This board also has a built in regulator on
> the card. Check the battery connection to ground, a via thru the card
> supplies ground to both sides of the card, if this is broken the card will
> no operate, if it has high resistance the card will operate intermittently.
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: Vaidanis <sv1aku@...>
> To: Racal6790GM@yahoogroups.com
> Subject: Re: [Racal6790GM] Re: 6790 digital-like noise issues
> Date: Tue, 31 Aug 2010 22:22:22 +0000 (GMT)
>
>
>

--
Sent from my mobile device

1533. Re: [Racal6790GM] 6790 digital-like noise issues

Yahoo group: Racal6790GM
Date: 2010-09-02 19:12:35 UTC
From: Vaidanis
Topic: 1526 Message: 1533

Hi all,
noise issue fixed, just removed A6A2 interface board and receiver behaves normaly! Also replaced A6A1 to A9 34 way cable, fixed left keypad flex cable issue with conductive paint and replace LCD bulbs with nice white leds.

Thank you all for your replies and help!

73's,
Konstantinos SW1GSI

--- Στις Πέμ., 02/09/10, ο/η Tom Frobase <tfrobase@...> έγραψε:

Από: Tom Frobase <tfrobase@...>
Θέμα: Re: [Racal6790GM] 6790 digital-like noise issues
Προς: Racal6790GM@yahoogroups.com
Ημερομηνία: Πέμπτη, 2 Σεπτέμβριος 2010, 5:33

Check the pot on the regulator, I had one that was noisy and caused a

similar problem ... tom, n3lll

On 9/1/10, gewingerd@... <gewingerd@...> wrote:

> Konstantinos,

>

> The only boards are on ebay and most of them have problems.

>

> Check the voltages and ripple on the A4 card, this board has built in

> regulators. Also the A6A2 card can be run by itself without the A6A1 card

> attached if LK1 is installed. This board also has a built in regulator on

> the card. Check the battery connection to ground, a via thru the card

> supplies ground to both sides of the card, if this is broken the card will

> no operate, if it has high resistance the card will operate intermittently.

>

> Thanks,

> Gary

>

> Please note: message attached

>

> From: Vaidanis <sv1aku@...>

> To: Racal6790GM@yahoogroups.com

> Subject: Re: [Racal6790GM] Re: 6790 digital-like noise issues

> Date: Tue, 31 Aug 2010 22:22:22 +0000 (GMT)

>

>

>

--

Sent from my mobile device

1534. Noise Reduction for RA6790

Yahoo group: Racal6790GM
Date: 2010-09-08 21:10:46 UTC
From: H Lawrence Serra
Topic: 1534 Message: 1534

I have experienced significant local RFI with my 6790 over the last couple of years, especially with the RF AMP module installed. This local RFI comes from various sources--power lines, battery chargers, common mode noise, etc.

I dug around and pulled out my old JPS NIR-12 DSP (peak, notch and noise reduction modes) over the weekend. After much twiddling and adjusting, I find that it significantly helps with local noise on CW reception. Even without the Noise Reduction mode engaged, the Dynamic Peak mode brings otherwise unreadable CW sigs out of the noise so they are copyable. The Noise Reduction mode helps also with medium to strong signals, but on weak signals it is best left off and let the Dynamic Peak mode do its thing. I think JPS stopped making these units when it was bought by Raytheon (I'm not sure), but they are built like a tank and are available used quite frequently.

I have asked Graham at BHI (maker of the British Clear Speech noise reduction gear, such as the BHI NEIM 1031 Mk II) to process some CW and SSB wav files I copied off the air on the 6790. Apparently he can process the files through his BHI NEIM 1031 Mk II and return them to demonstrate how the gear will work on my particular noise sources. I will keep the group posted about results.

73, Larry N6NC

1535. Re: Looking to sell: Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2010-09-10 16:10:59 UTC
From: upnorthbookworm
Topic: 1516 Message: 1535

still for sale? rowland
--- In Racal6790GM@yahoogroups.com, "ve7igz" <mancity@...> wrote:
>
> I have for sale an excellent condition Racal RA6790/GM communications receiver in perfect working condition and includes 300hz 1Khz 3.2Khz 6Khz and 20Khz filters. It has had new keypads, lcd's and new Lithium backup battery. It also has the LF eproms installed so it covers 10Khz to 30Mhz in 1Hz 10Hz and 100hz steps, photocopies of the manual are included and I am looking for $900 + shipping from BC Canada.
>
> Rob.
> VA7UK
> VE7IGZ
>

1536. circuit board

Yahoo group: Racal6790GM
Date: 2010-09-11 19:05:14 UTC
From: upnorthbookworm
Topic: 1536 Message: 1536

Looking at the top view of my 6790/gm, there is a circuit board in the position where the A5 should be. The only Raccal number is A08912-2. Can someone tell me what is the function of this circuit board?
Rowland

1537. RA1792 :: Flickering Left Display

Yahoo group: Racal6790GM
Date: 2010-09-14 09:29:26 UTC
From: hamfm1000
Topic: 1537 Message: 1537

Hi,
Glad to say that the RA1792 has been brought back to life.
The remaining niggle (until the next one comes along HI HI) is that when tuning manually the frequency display flickers.

Anyone point me in the right direction of a fix?

Oh,
One more question - read on here that you can damage 'front end'.
What precautions are best to avoid this.

73
Tony

1538. Re: [Racal6790GM] RA1792 :: Flickering Left Display

Yahoo group: Racal6790GM
Date: 2010-09-14 14:01:36 UTC
From: Dan Rae
Topic: 1537 Message: 1538

On 9/14/2010 2:29 AM, hamfm1000 wrote:
> Oh,
> One more question - read on here that you can damage 'front end'.
> What precautions are best to avoid this.
>
> 73
> Tony
>
>
>
Tony, along with all the other Racals that I have owned or seen, APART from the 6790/GM, the 1792 has built in protection for the front end, so no special precautions are needed. Why it was left out of the GM I have no idea...

dr

1539. Re: [Racal6790GM] RA1792 :: Flickering Left Display

Yahoo group: Racal6790GM
Date: 2010-09-14 14:25:53 UTC
From: casy_ch@tbwil.ch
Topic: 1537 Message: 1539

Hi Dan

Simply because the RA-1792 was UK made and the RA-6790/GM was US made. Competition within profits center of a group leads to certain "aberrations".

73 de Jean-Claude, Switzerland

----- Original Message -----
From: Dan Rae
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, September 14, 2010 4:01 PM
Subject: Re: [Racal6790GM] RA1792 :: Flickering Left Display

On 9/14/2010 2:29 AM, hamfm1000 wrote:
> Oh,
> One more question - read on here that you can damage 'front end'.
> What precautions are best to avoid this.
>
> 73
> Tony
>
>
>
Tony, along with all the other Racals that I have owned or seen, APART from the 6790/GM, the 1792 has built in protection for the front end, so no special precautions are needed. Why it was left out of the GM I have no idea...

dr

1540. BITE initiates on power up

Yahoo group: Racal6790GM
Date: 2010-09-18 05:18:32 UTC
From: zf2scka9p
Topic: 1540 Message: 1540

I've been parting and piecing together a few radios from a bunch of inop stuff and have one that runs fine and passes BITE, but initiates BITE on every power up.

Is it possible this isn't a fault, or if it is, any ideas what to check first?

Thanks, Scott

1541. Re: [Racal6790GM] BITE initiates on power up

Yahoo group: Racal6790GM
Date: 2010-09-18 11:03:52 UTC
From: toddroberts2001@aol.com
Topic: 1540 Message: 1541

In a message dated 9/18/2010 1:38:16 A.M. Eastern Daylight Time,
ka9p@... writes:

I've been parting and piecing together a few radios from a bunch of inop
stuff and have one that runs fine and passes BITE, but initiates BITE on
every power up.

Is it possible this isn't a fault, or if it is, any ideas what to check
first?

Thanks, Scott

Check for a low memory battery or one that does not hold a charge.
73 - Todd WD4NGG

1542. More troubleshooting....

Yahoo group: Racal6790GM
Date: 2010-09-21 22:24:51 UTC
From: zf2scka9p
Topic: 1542 Message: 1542

Todd, thanks for th tip on the battery, all is well now with that radio.

On to the next pile of misfit boards - I tried Gary's procedure of unplugging all but A10, 9 and 6-2,in the procedure it says make sure that the Remote light isn't lit - but of course mine is :)

Visual inspection didn't show any popped tantalums on those boards- anyone have any thoughts on the next quick and easy thing to check would be greatly appreciated.

[And if anyone within driving distance of Chicago would like a deal on 5 carcasses with most boards, and probably 20 or so filters please let me know off list. I doubt there is a lot of working stuff in there but I've built what I need for my diversity project and a spare and haven't tried most of the rest, and being kinda of a hack repair guy, not that inclined to start popping unknown boards into working radios to see what happens].

Thanks, Scott

1543. Fw: [Premium-Rx] Racal RA6790/GM For Sale

Yahoo group: Racal6790GM
Date: 2010-09-01 23:42:04 UTC
From: Leigh
Topic: 1543 Message: 1543

Thought someone from this group might be interested...

----- Original Message -----
From: "Joe Watson" <wwatson5@...>
To: <premium-rx@...>
Sent: Wednesday, September 01, 2010 3:39 PM
Subject: [Premium-Rx] Racal RA6790/GM For Sale

>I am planning to sell my very nice Racal RA6790/GM which is in a really
>handsome matching cabinet. I was told that Racal had commissioned these
>cabinets for the receiver---at least the colors match. The radio looks and
>works great.
>
> If interested, contact me directly.
>
> Joe
> W5WBR
> _____
> Premium-Rx mailing list
> Home: http://mailman.qth.net/mailman/listinfo/premium-rx
> Help Page: http://mailman.qth.net/mmfaq.htm
> Post: mailto:Premium-Rx@...
> Help Contact eMail: paul@...
> Home Page: http://www.premium-rx.org/

1544. Re: OH dear its not working ....quite as it use to... IS NOW !!!!

Yahoo group: Racal6790GM
Date: 2010-10-18 20:43:16 UTC
From: graham787
Topic: 1506 Message: 1544

Just sorted the 6790 .. Board A7.....R16.......ECL 5.2 V

Voltage had dropped to round 4.5 V , re set to 5.201 V , all ok,

Symptoms ..... out of lock / jitter increasing as dial frequency reduced past 50 KHz
random OOL in HF range , wrong filter bandwidth on bite

Tnx - G ..

--- In Racal6790GM@yahoogroups.com, "graham787" <g0nbd@...> wrote:
>
> OH dear its not working ....quite as it use to
>
> My 6790 seems to of developed a problem with the synthesiser
> The set is on frequency , all modes ok , passes self test
>
> However there is a random small change of frequency , which produces the affect of 'FM'
modulation on a ssb signal and side bands on a single tone..audio has a random 'noisy
capacitor' quality
>
> Ive seen the fault lamp flicker , but not very often ,
>
> My first thought is the precision regulator on the main oscillator board , this had
drifted when I first brought the set ....
>
> No much to go on at the moment , assume if i inject 455 to the final IF and the
demodulated tone is ok , this puts the fault up stream
>
> the memory battery has failed . working with no battery should not cause an problems ??
>
> Tnx- G
>

1545. Main dial friction / drag

Yahoo group: Racal6790GM
Date: 2010-10-27 21:18:38 UTC
From: graham787
Topic: 1545 Message: 1545

Q can the 'drag' or 'friction' of the main dial be adjusted ?

Tnx - G ..

1546. Re: [Racal6790GM] Main dial friction / drag

Yahoo group: Racal6790GM
Date: 2010-10-28 14:44:22 UTC
From: Dan Rae
Topic: 1545 Message: 1546

On 10/27/2010 2:18 PM, graham787 wrote:
> Q can the 'drag' or 'friction' of the main dial be adjusted ?
>
> Tnx - G ..
>
>
>
Graham,

You can lower it as a rule by polishing the steel shaft, cleaning the inside of the nylon bearing with propanol, and applying one drop of synthetic teflon bearing oil when you put it back together.

It is also possible to add a flywheel behind the tuning disc, which gives a nice feel to it.

But that's it as far as I know.

Dan

1547. Re: [Racal6790GM] Main dial friction / drag

Yahoo group: Racal6790GM
Date: 2010-10-28 16:13:05 UTC
From: Bob Betts
Topic: 1545 Message: 1547

Dan:
What you said is very important. Synthetic bearing oil (for Nylon) only must be used. Any lubricant with petroleum distillates will shorten the life of Nylon. Things like WD40, Vaseline or any of the other petro-lubes are forbidden in products we manufacture, which use Nylon, Delrin, PVC, and ABS-type plastics.
For one of the receivers, I did make a washer/spring friction clutch device for under the knob. It was adjustable by how far the knob was slid down on the shaft. It's a "set-and-forget" thing and a bit tedious to get it the way you want it, but once set, it is very nice.
I never considered the flywheel addition, but will certainly look into it -- sounds interesting.
Thanks for the info.

Bob, N1KPR

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--- On Thu, 10/28/10, Dan Rae <danrae@...> wrote:

On 10/27/2010 2:18 PM, graham787 wrote:
> Q can the 'drag' or 'friction' of the main dial be adjusted ?
>
> Tnx - G ..
>
>
>
Graham,

You can lower it as a rule by polishing the steel shaft, cleaning the inside of the nylon bearing with propanol, and applying one drop of synthetic teflon bearing oil when you put it back together.

It is also possible to add a flywheel behind the tuning disc, which gives a nice feel to it.

But that's it as far as I know.

Dan

1548. Re: [Racal6790GM] Main dial friction / drag

Yahoo group: Racal6790GM
Date: 2010-10-28 16:39:06 UTC
From: Dan Rae
Topic: 1545 Message: 1548

On 10/28/2010 9:13 AM, Bob Betts wrote:
>
>
> Dan:
> What you said is very important. Synthetic bearing oil (for Nylon)
> only must be used. Any lubricant with petroleum distillates will
> shorten the life of Nylon. Things like WD40, Vaseline or any of the
> other petro-lubes are forbidden in products we manufacture, which use
> Nylon, Delrin, PVC, and ABS-type plastics.
> For one of the receivers, I did make a washer/spring friction clutch
> device for under the knob. It was adjustable by how far the knob was
> slid down on the shaft. It's a "set-and-forget" thing and a bit
> tedious to get it the way you want it, but once set, it is very nice.
> I never considered the flywheel addition, but will certainly look into
> it -- sounds interesting.
> Thanks for the info.
> Bob, N1KPR
>
Bob, For the flywheel I found a metal pulley wheel at the local hardware store and fitted that with an extra long screw to the back of the encoder disc. It's about 2 inches or 5 cm diameter, and I think gives a nice feel to it. But I use 10 Hz tuning steps most of the time, not 30.

On one of my homebrew radios I put a couple of layers of thick soft rags under the tuning knob to dampen it a bit which helped, for that one had a ball bearing encoder that you only had to look at to move.

Dan

1549. Re: [Racal6790GM] Main dial friction / drag

Yahoo group: Racal6790GM
Date: 2010-10-28 18:34:56 UTC
From: gewingerd@netzero.com
Topic: 1545 Message: 1549
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1550. Re: [Racal6790GM] Main dial friction / drag

Yahoo group: Racal6790GM
Date: 2010-10-29 11:59:18 UTC
From: Dennis Hatch
Topic: 1545 Message: 1550

I used a very fine silicon carbide sandpaper to smooth and take some of the tuning shaft dimesion down, used a silcone-teflon base lubricant. The knob spins like a Hammarlund SP-600 !!

From: Dan Rae <danrae@...>
To: Racal6790GM@yahoogroups.com
Sent: Thu, October 28, 2010 11:39:06 AM
Subject: Re: [Racal6790GM] Main dial friction / drag

On 10/28/2010 9:13 AM, Bob Betts wrote:
>
>
> Dan:
> What you said is very important. Synthetic bearing oil (for Nylon)
> only must be used. Any lubricant with petroleum distillates will
> shorten the life of Nylon. Things like WD40, Vaseline or any of the
> other petro-lubes are forbidden in products we manufacture, which use
> Nylon, Delrin, PVC, and ABS-type plastics.
> For one of the receivers, I did make a washer/spring friction clutch
> device for under the knob. It was adjustable by how far the knob was
> slid down on the shaft. It's a "set-and-forget" thing and a bit
> tedious to get it the way you want it, but once set, it is very nice.
> I never considered the flywheel addition, but will certainly look into
> it -- sounds interesting.
> Thanks for the info.
> Bob, N1KPR
>
Bob, For the flywheel I found a metal pulley wheel at the local hardware store and fitted that with an extra long screw to the back of the encoder disc. It's about 2 inches or 5 cm diameter, and I think gives a nice feel to it. But I use 10 Hz tuning steps most of the time, not 30.

On one of my homebrew radios I put a couple of layers of thick soft rags under the tuning knob to dampen it a bit which helped, for that one had a ball bearing encoder that you only had to look at to move.

Dan

1551. Display Contrast

Yahoo group: Racal6790GM
Date: 2010-11-20 03:12:16 UTC
From: Bob Betts
Topic: 1545 Message: 1551

Hello Group:
We are rennovating a couple of rooms here so it's going to be difficult for me to get to my Service Manuals. Could someone tell me if there is a contrast or drive level adjustment for the LCD displays of the 6790/GM? I haven't used the radio in some time, but it seems that all displays, all segments, seem to be overly dense, very high contrast. Maybe it's just me, but I don't think so. Any suggestions would be gratefully appreciated.

Happy Thanksgiving where/as it applies,

Bob, N1KPR

1552. Re: [Racal6790GM] Display Contrast

Yahoo group: Racal6790GM
Date: 2010-11-20 03:17:10 UTC
From: mparkinson1
Topic: 1545 Message: 1552

It sounds like your displays are bad and need to be replaced and while your at it you should have the lighted board added to the display to help see the display in the dark also.
I have replaced many of the LCD displays on the racal receivers they are know to have this issue.
Matt Parkinson Military Equipment & R 390A Depot Center

1553. Re: [Racal6790GM] Display Contrast

Yahoo group: Racal6790GM
Date: 2010-11-20 03:29:00 UTC
From: Bob Betts
Topic: 1545 Message: 1553

Thanks Matt:
I replaced the old lighting board with and LED bd. some time ago. My confusion is the fact that the LCD segments have gotten more bold rather than weaker, as I'm used to seeing with old LCDs.
Thanks for the info.

bb

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--- On Fri, 11/19/10, mparkinson1 <mparkinson1@....com> wrote:

From: mparkinson1 <mparkinson1@...>
Subject: Re: [Racal6790GM] Display Contrast
To: Racal6790GM@yahoogroups.com
Date: Friday, November 19, 2010, 10:17 PM

It sounds like your displays are bad and need to be replaced and while your at it you should have the lighted board added to the display to help see the display in the dark also.
I have replaced many of the LCD displays on the racal receivers they are know to have this issue.
Matt Parkinson Military Equipment & R 390A Depot Center

1554. Re: [Racal6790GM] Display Contrast

Yahoo group: Racal6790GM
Date: 2010-11-20 05:46:14 UTC
From: mparkinson1
Topic: 1545 Message: 1554

Bob how long has the receiver been sitting without power to it.
It might help running the receiver a while but I doubt it.
It still sounds like the displays are starting to bleed which may look like they are getting bolder however in fact they are bleeding and braking down.
Matt Parkinson Military Equipment & R 390A Depot Center

1555. Re: [Racal6790GM] Display Contrast

Yahoo group: Racal6790GM
Date: 2010-11-20 15:01:48 UTC
From: Bob Betts
Topic: 1545 Message: 1555

I think it's been in the closet about 4 months - no longer - and was perfect for daily use before that. I'm not terribly concerned, if Gary still has displays available. I'll talk to him if he doesn't see this thread first.

My assumption about adjusting the contrast must be a "mind-set" that I developed from some other gear I built recently, with LCDs, that incorporated brightness controls for the back (edge) lights and a drive voltage for the contrast level.

I'm particularly predisposed to this receiver, since I, literally, reconfigured it for LF and MF DXing. It's low noise and stability make it very friendly for that kind of play. And I've had my hands in it many times, replacing caps, repairing the P/S, preamp and audio stages, etc.

Thanks again Matt,

bb

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--- On Sat, 11/20/10, mparkinson1 <mparkinson1@...> wrote:

From: mparkinson1 <mparkinson1@...>
Subject: Re: [Racal6790GM] Display Contrast
To: Racal6790GM@yahoogroups.com
Date: Saturday, November 20, 2010, 12:46 AM

☐
Bob how long has the receiver been sitting without power to it.
It might help running the receiver a while but I doubt it.
It still sounds like the displays are starting to bleed which may look like they are getting bolder however in fact they are bleeding and braking down.
Matt Parkinson Military Equipment & R 390A Depot Center

1556. Re: [Racal6790GM] Display Contrast

Yahoo group: Racal6790GM
Date: 2010-11-20 16:36:15 UTC
From: gewingerd@netzero.com
Topic: 1545 Message: 1556
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1557. Eprom ra6790/gm

Yahoo group: Racal6790GM
Date: 2010-11-20 16:41:39 UTC
From: fr5do
Topic: 1557 Message: 1557

Hello,

  I have a Racal 2716 RAM 6790/GM equipped with firmware version V2.2
  I'm looking for a newer version that allows reception of VLF and
   1 kHz 100 Hz and 1 hz step.
  I can provide the content Eproms Bin v2.2 in 3 files : U14, U5 and U6

Best 73 s de Chris

f6cnk, La Rochelle France

1558. Re: Display Contrast

Yahoo group: Racal6790GM
Date: 2010-11-20 17:46:27 UTC
From: driftermick
Topic: 1545 Message: 1558

Gary.

The 4 receivers, you just refurbished. will these be
going up for sale? I have been in the market, for a clean,
6790GM, with all the bells and whistles, for my collection.
if you have a clean one, collector quality, please drop
me an email, with all info. Thanks.

Drifter...

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Bob,
>
> Sounds like the displays are going bad, I still have them in stock for $55.00 each plus shipping.
>
> Thanks,
> Gary
>
> PS; I am also sitting on 4 receivers that I just refurbished.
>
> Please note: message attached
>
> From: Bob Betts <rwbetts@...>
> To: Racal6790GM@yahoogroups.com
> Subject: Re: [Racal6790GM] Display Contrast
> Date: Sat, 20 Nov 2010 07:01:48 -0800 (PST)
>
>
>
> I think it's been in the closet about 4 months - no longer - and was perfect for daily use before that. I'm not terribly concerned, if Gary still has displays available. I'll talk to him if he doesn't see this thread first.
> Â
> My assumption about adjusting the contrast must be a "mind-set" that I developed from some other gear I built recently, with LCDs, that incorporated brightness controls for the back (edge) lights and a drive voltage for the contrast level.
> Â
> I'm particularly predisposed to this receiver, since I, literally,Â reconfigured it for LF and MF DXing. It's low noise and stability make it very friendly for that kind of play. And I've had my hands in it many times, replacing caps, repairing the P/S, preamp and audio stages, etc.
> Â
> Thanks again Matt,
> Â

> bb
>
>
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>
> --- On Sat, 11/20/10, mparkinson1 <mparkinson1@...> wrote:
>
>
> From: mparkinson1 <mparkinson1@...>
> Subject: Re: [Racal6790GM] Display Contrast
> To: Racal6790GM@yahoogroups.com
> Date: Saturday, November 20, 2010, 12:46 AM
>
>
> Â
>
>
>
> ï»¿
> Bob how long has the receiver been sitting without power to it.
> It might help running the receiver a while but I doubt it.
> It still sounds like the displays are starting to bleed which may look like they are getting bolder however in fact they are bleeding and braking down.
> Matt Parkinson Military Equipment & R 390A Depot Center
>

1559. Re: [Racal6790GM] Display Contrast

Yahoo group: Racal6790GM
Date: 2010-11-20 17:53:39 UTC
From: Bob Betts
Topic: 1545 Message: 1559

Gary:
Thank you.
I'll be contacting you shortly to make arrangements.
Bob

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--- On Sat, 11/20/10, gewingerd@... <gewingerd@...> wrote:

From: gewingerd@... <gewingerd@...>
Subject: Re: [Racal6790GM] Display Contrast
To: Racal6790GM@yahoogroups.com
Date: Saturday, November 20, 2010, 11:36 AM

Bob,

Sounds like the displays are going bad, I still have them in stock for $55.00 each plus shipping.

Thanks,
Gary

PS; I am also sitting on 4 receivers that I just refurbished.

Please note: message attached

From: Bob Betts <rwbetts@...>
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Display Contrast
Date: Sat, 20 Nov 2010 07:01:48 -0800 (PST)

1560. Re: [Racal6790GM] Display Contrast

Yahoo group: Racal6790GM
Date: 2010-11-20 18:01:45 UTC
From: Phill Simmons
Topic: 1545 Message: 1560

Hi Gary,

If the refurbed RA6790/GMs are up for sale, then I am interested in purchasing one.
Thanks,
Phill

From: "gewingerd@..." <gewingerd@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, 20 November, 2010 16:36:15
Subject: Re: [Racal6790GM] Display Contrast

Note: Forwarded message is attached.

Bob,

Sounds like the displays are going bad, I still have them in stock for $55.00 each plus shipping.

Thanks,
Gary

PS; I am also sitting on 4 receivers that I just refurbished.

Please note: message attached

From: Bob Betts <rwbetts@...>
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Display Contrast
Date: Sat, 20 Nov 2010 07:01:48 -0800 (PST)

1561. Re: [Racal6790GM] Re: Display Contrast

Yahoo group: Racal6790GM
Date: 2010-11-21 02:35:03 UTC
From: gewingerd@netzero.com
Topic: 1545 Message: 1561
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1562. Re: [Racal6790GM] Re: Display Contrast

Yahoo group: Racal6790GM
Date: 2010-11-21 03:43:57 UTC
From: gewingerd@netzero.com
Topic: 1545 Message: 1562
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1563. 4 6790 refurbish for sale

Yahoo group: Racal6790GM
Date: 2010-11-21 16:59:55 UTC
From: TERRY/N4SuB
Topic: 1563 Message: 1563
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1564. Re: [Racal6790GM] 4 6790 refurbish for sale

Yahoo group: Racal6790GM
Date: 2010-11-21 17:45:56 UTC
From: gewingerd@netzero.com
Topic: 1563 Message: 1564
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1565. Filter Identification

Yahoo group: Racal6790GM
Date: 2010-11-25 18:07:16 UTC
From: Jim Davey
Topic: 1565 Message: 1565

Hello: I am new to the group and a new owner of an 6790/gm which needs a little repair. My unit has two filters that are not listed in the Racal manuals, but obviously made for the 6790 by virtue of their pin layout. I am trying to determine some characteristics for them.

#1 is marked: FSCM 53733 8652 4360; BITE shows 3.4 kHz. What is the shape factor and diff delay? The number 8652 is close to the series numbering scheme shown for the standard filters, but this number is not listed.

#2 is marked: Alpha Model 20791 400 Hz; what is shape factor and diff delay? This filter has damaged I/O pins which I'll have to fix before I can use BITE to verify it's performance.

Any help is greatly appreciated.

1566. Another one still breathing

Yahoo group: Racal6790GM
Date: 2010-11-26 18:00:29 UTC
From: Bob Betts
Topic: 1563 Message: 1566

Group:I just wanted to share another pleasant experience regarding the repair of my 6790/GM.
I ordered new LCD displays from Gary last Sunday, received them Wednesday, and installed them before the feast (and in-law invasion) on Thursday.
I have done business with Gary before, having installed his LED lighting kit, RAM batteries, tuning knobs, and utilized his helpful repair instructions, test and alignment hints, error code analysis, etc.
It's always a pleasure to know the instructive help will be here quickly, and/or the parts packed safely, and at a fair price.
Another Racal is given an extended life and continues to offer the pleasure that comes from using such a device, thanks to Gary, and the group members who took the time to offer help.
Kindest regards,Bob, N1KPR
http://www.bobsamerica.com/swl.html

On Sat, Nov 20, 2010 at 11:36 AM, gewingerd@... wrote:
Bob,
 Sounds like the displays are going bad, I still have them in stock for $55.00 each plus shipping.
Thanks,Gary

1567. RACAL receiver on EBAY

Yahoo group: Racal6790GM
Date: 2010-12-02 10:09:50 UTC
From: gewingerd@netzero.com
Topic: 1567 Message: 1567

This receiver is on EBAY now and has the very hard to find USB & LSB Filters installed that sell for $400 a set. Item #220704391237 Racal RA6790/GM Radio Receiver / Racal Radio Filters.

Thanks,
Gary

1568. Re: [Racal6790GM] RACAL receiver on EBAY

Yahoo group: Racal6790GM
Date: 2010-12-02 15:01:57 UTC
From: oscar873@aol.com
Topic: 1567 Message: 1568

Is this yours and what filters does it have?
can not acces epay .

-----Original Message-----
From: gewingerd@... <gewingerd@...m>
To: Racal6790GM@yahoogroups.com
Sent: Thu, Dec 2, 2010 2:09 am
Subject: [Racal6790GM] RACAL receiver on EBAY

This receiver is on EBAY now and has the very hard to find USB & LSB Filters
nstalled that sell for $400 a set. Item #220704391237 Racal RA6790/GM Radio
eceiver / Racal Radio Filters.
Thanks,
ary

Yahoo! Groups Links
Individual Email | Traditional
http://docs.yahoo.com/info/terms/

1569. Re: RACAL receiver on EBAY

Yahoo group: Racal6790GM
Date: 2010-12-02 18:49:34 UTC
From: signal2@bellsouth.net
Topic: 1567 Message: 1569

Gary
Are these the filters needed for ISB operation? I have the ISB board, got it from you (I think) several years ago.
Thanks,
Paul

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> This receiver is on EBAY now and has the very hard to find USB & LSB Filters installed that sell for $400 a set. Item #220704391237 Racal RA6790/GM Radio Receiver / Racal Radio Filters.
>
> Thanks,
> Gary
>

1570. Re: [Racal6790GM] Re: RACAL receiver on EBAY

Yahoo group: Racal6790GM
Date: 2010-12-02 19:03:15 UTC
From: gewingerd@netzero.com
Topic: 1567 Message: 1570
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1571. Re: [Racal6790GM] RACAL receiver on EBAY

Yahoo group: Racal6790GM
Date: 2010-12-02 19:12:54 UTC
From: gewingerd@netzero.com
Topic: 1567 Message: 1571
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1572. 1.8 kHz SSB offset

Yahoo group: Racal6790GM
Date: 2010-12-12 18:19:01 UTC
From: Kevin Alfred Strom
Topic: 1572 Message: 1572

Thanks to you all for a wonderful resource. I am a new owner of a 6790/GM, which has been one of my dreams since I foolishly sold my customized RA6217 to Howard Mills back in the 1990s.

I am trying to get the best possible bass response on SSB for the best fidelity when listening to ESSB stations. A -6 dB point of 50 Hz is about what I am looking for. I know that using manual BFO offset can give that to me, but I'd like to set it up that way with the LSB / USB buttons.

Right now the fixed 1.8 kHz SSB offsets and the 3.24 filter roll off the bass a bit too much for my tastes. I'd like to change the offsets to, say, 1.6 or 1.7 kHz.

Is there any way to do that short of re-burning the EPROMs? I know little to nothing about EPROMs. Is redoing them feasible? Or would I be better off just seeking a slightly wider filter in the FL1 position to get the better low end that I want?

With all good wishes,

Kevin, WB4AIO.

1573. Re: 1.8 kHz SSB offset

Yahoo group: Racal6790GM
Date: 2010-12-12 22:56:43 UTC
From: graham787
Topic: 1572 Message: 1573

...As far as I know, the bfo/cio to filter skirt are set in the hard coded operating system , eg the usb/lsb set using one filter , which when the usb/lsb filters are installed is then bypassed..

only in cw can the bfo , be used as cio and set to the filter skirt, but then the cw /am filters are symmetrical and are not ideal for ssb ?

may be a good case for converting 455 if to digital and using a software back end to provide the final demod ...ok not real radio but it works real good (hi) and its not a one way trip hacking the set to bits

G..

--- In Racal6790GM@yahoogroups.com, Kevin Alfred Strom <kevin.alfred.strom@...> wrote:
>
> Thanks to you all for a wonderful resource. I am a new owner of a
> 6790/GM, which has been one of my dreams since I foolishly sold my
> customized RA6217 to Howard Mills back in the 1990s.
>
> I am trying to get the best possible bass response on SSB for the
> best fidelity when listening to ESSB stations. A -6 dB point of 50
> Hz is about what I am looking for. I know that using manual BFO
> offset can give that to me, but I'd like to set it up that way with
> the LSB / USB buttons.
>
> Right now the fixed 1.8 kHz SSB offsets and the 3.24 filter roll off
> the bass a bit too much for my tastes. I'd like to change the
> offsets to, say, 1.6 or 1.7 kHz.
>
> Is there any way to do that short of re-burning the EPROMs? I know
> little to nothing about EPROMs. Is redoing them feasible? Or would I
> be better off just seeking a slightly wider filter in the FL1
> position to get the better low end that I want?
>
>
> With all good wishes,
>
>
> Kevin, WB4AIO.
>

1574. Re: 1.8 kHz SSB offset

Yahoo group: Racal6790GM
Date: 2010-12-12 22:56:42 UTC
From: graham787
Topic: 1572 Message: 1574

...As far as I know, the bfo/cio to filter skirt are set in the hard coded operating system , eg the usb/lsb set using one filter , which when the usb/lsb filters are installed is then bypassed..

only in cw can the bfo , be used as cio and set to the filter skirt, but then the cw /am filters are symmetrical and are not ideal for ssb ?

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G..

--- In Racal6790GM@yahoogroups.com, Kevin Alfred Strom <kevin.alfred.strom@...> wrote:
>
> Thanks to you all for a wonderful resource. I am a new owner of a
> 6790/GM, which has been one of my dreams since I foolishly sold my
> customized RA6217 to Howard Mills back in the 1990s.
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> best fidelity when listening to ESSB stations. A -6 dB point of 50
> Hz is about what I am looking for. I know that using manual BFO
> offset can give that to me, but I'd like to set it up that way with
> the LSB / USB buttons.
>
> Right now the fixed 1.8 kHz SSB offsets and the 3.24 filter roll off
> the bass a bit too much for my tastes. I'd like to change the
> offsets to, say, 1.6 or 1.7 kHz.
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> Is there any way to do that short of re-burning the EPROMs? I know
> little to nothing about EPROMs. Is redoing them feasible? Or would I
> be better off just seeking a slightly wider filter in the FL1
> position to get the better low end that I want?
>
>
> With all good wishes,
>
>
> Kevin, WB4AIO.
>

1575. Re: Main dial friction / drag

Yahoo group: Racal6790GM
Date: 2010-10-28 16:59:30 UTC
From: graham787
Topic: 1545 Message: 1575

Ok Thank's Dan,

Without taking the thing appart , could not see any adjustment ,
for a nylon assy, then I think it's quite free , was looking for the felt buffer and spring ...

G ..

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 10/27/2010 2:18 PM, graham787 wrote:
> > Q can the 'drag' or 'friction' of the main dial be adjusted ?
> >
> > Tnx - G ..
> >
> >
> >
> Graham,
>
> You can lower it as a rule by polishing the steel shaft, cleaning the
> inside of the nylon bearing with propanol, and applying one drop of
> synthetic teflon bearing oil when you put it back together.
>
> It is also possible to add a flywheel behind the tuning disc, which
> gives a nice feel to it.
>
> But that's it as far as I know.
>
> Dan
>

1576. Filter Repair Tip

Yahoo group: Racal6790GM
Date: 2010-12-28 01:01:20 UTC
From: Jim Davey
Topic: 1576 Message: 1576

Hello Group:
I got a couple filters with my receiver that had loose I/O pins. It looked like opening up one side panel of each filter and making the repair on the inside was the only way to be sure the connections were OK and keep the bottom flat so the filter could be seated tight to the IF board.
While open, I took a couple photos of two filters which I thought would be of general interest and have posted in the Misc Folder: the 4 pole 400 Hz (8406) and the 16 kHz (8415). I also posted a close-up of the repair.
Repair was done with epoxy (JB Weld brand) around the pin and connection on the inside. On the 400 Hz filter, I needed to add a little solder "whisker" just above the feedthrough insulator to make sure the pin was captive. This 5 min epoxy is thick enough to stay put around the pin while it is setting and dries as hard as glass in 24 hrs or so. It does not appear to be the least bit conductive.

Jim K8RZ

1577. Re: [Racal6790GM] Filter Repair Tip

Yahoo group: Racal6790GM
Date: 2010-12-28 01:20:32 UTC
From: toddroberts2001@aol.com
Topic: 1576 Message: 1577

In a message dated 12/27/2010 8:01:30 P.M. Eastern Standard Time,
k8rz@... writes:

Hello Group:
I got a couple filters with my receiver that had loose I/O pins. It looked
like opening up one side panel of each filter and making the repair on the
inside was the only way to be sure the connections were OK and keep the
bottom flat so the filter could be seated tight to the IF board.
While open, I took a couple photos of two filters which I thought would be
of general interest and have posted in the Misc Folder: the 4 pole 400 Hz
(8406) and the 16 kHz (8415). I also posted a close-up of the repair.
Repair was done with epoxy (JB Weld brand) around the pin and connection
on the inside. On the 400 Hz filter, I needed to add a little solder
"whisker" just above the feedthrough insulator to make sure the pin was captive.
This 5 min epoxy is thick enough to stay put around the pin while it is
setting and dries as hard as glass in 24 hrs or so. It does not appear to be
the least bit conductive.

Jim K8RZ

Hi Jim,
Thanks for the repair tips on the 6790 filters. I have done a similar
repair job to several
filters here with loose pins and in one case a missing pin.

What I did was cut out a small square of pc board and left a circle of
copper in the middle where I
drilled a matching size hole for the new pin made out of stiff brass wire.
I soldered the pin to the small circuit board square
then glued the square piece over the hole with epoxy with the new pin
centered in the hole, then soldered a small flying lead to the new pin from the
filter circuit. I think the small square piece of circuit board
gives the new pin a very strong and stable mounting and more surface area
for the epoxy glue to stick to.

73 - Todd WD4NGG

1578. Re: [Racal6790GM] Filter Repair Tip

Yahoo group: Racal6790GM
Date: 2010-12-28 01:54:14 UTC
From: Kevin Alfred Strom
Topic: 1576 Message: 1578

On 12/27/2010 8:01 PM, Jim Davey wrote:
> Hello Group:
> I got a couple filters with my receiver that had loose I/O pins. It looked like opening up one side panel of each filter and making the repair on the inside was the only way to be sure the connections were OK and keep the bottom flat so the filter could be seated tight to the IF board.
> While open, I took a couple photos of two filters which I thought would be of general interest and have posted in the Misc Folder: the 4 pole 400 Hz (8406) and the 16 kHz (8415). I also posted a close-up of the repair.
> Repair was done with epoxy (JB Weld brand) around the pin and connection on the inside. On the 400 Hz filter, I needed to add a little solder "whisker" just above the feedthrough insulator to make sure the pin was captive. This 5 min epoxy is thick enough to stay put around the pin while it is setting and dries as hard as glass in 24 hrs or so. It does not appear to be the least bit conductive.
>
> Jim K8RZ
[...]

Thanks for the information and photos, Jim. Did you heat the case or use some special method to open them so neatly?

Also, it looks like the 16 kHz unit is an LC filter. Is that right? Mine performs more like a 20+ kHz filter.

With thanks,

Kevin, WB4AIO.

1579. Re: Filter Repair Tip

Yahoo group: Racal6790GM
Date: 2010-12-28 02:43:18 UTC
From: Jim Davey
Topic: 1576 Message: 1579

Kevin:

I used a small Weller soldering gun and lots of solderwick to open the 400 Hz filter. I started with the larger solderwick and then cleaned up with some smaller diameter wick that you can force down into the groove as you drag it along. It took about 30 minutes, but I was really motivated to fix that filter. The 16 kHz filter was another story (yes, it is an LC filter. Mine reads 20 kHz on the display too). It had a much deeper lip and I could not get enough solder out to break the joint with a knife blade. So I ended up using those little abrasive cut off wheels on a Dremel tool to slice between the body and the panel. If you hold the Dremel tool horizontally on the bench and move the filter forwards and backwards, you can control the depth and keep the wheel straight in the groove. It took me about 3 wheel replacements to get it all, but the case was untouched in the end (except little cuts at the corners), although I ground away quite a bit of the side panel lip. If I can't resolder the original panel back on, I will cut a piece of that thin hobby tinplate to make a new side panel.

Jim

--- In Racal6790GM@yahoogroups.com, Kevin Alfred Strom <kevin.alfred.strom@...> wrote:
>
> On 12/27/2010 8:01 PM, Jim Davey wrote:
> > Hello Group:
> > I got a couple filters with my receiver that had loose I/O pins. It looked like opening up one side panel of each filter and making the repair on the inside was the only way to be sure the connections were OK and keep the bottom flat so the filter could be seated tight to the IF board.
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> > Repair was done with epoxy (JB Weld brand) around the pin and connection on the inside. On the 400 Hz filter, I needed to add a little solder "whisker" just above the feedthrough insulator to make sure the pin was captive. This 5 min epoxy is thick enough to stay put around the pin while it is setting and dries as hard as glass in 24 hrs or so. It does not appear to be the least bit conductive.
> >
> > Jim K8RZ
> [...]
>
>
> Thanks for the information and photos, Jim. Did you heat the case or
> use some special method to open them so neatly?
>
> Also, it looks like the 16 kHz unit is an LC filter. Is that right?
> Mine performs more like a 20+ kHz filter.
>
>

> With thanks,
>
> Kevin, WB4AIO.
>

1580. Re: [Racal6790GM] Re: Filter Repair Tip

Yahoo group: Racal6790GM
Date: 2010-12-28 11:22:16 UTC
From: Kevin Alfred Strom
Topic: 1576 Message: 1580

On 12/27/2010 9:43 PM, Jim Davey wrote:
> Kevin:
>
> I used a small Weller soldering gun and lots of solderwick to open the 400 Hz filter. I started with the larger solderwick and then cleaned up with some smaller diameter wick that you can force down into the groove as you drag it along. It took about 30 minutes, but I was really motivated to fix that filter. The 16 kHz filter was another story (yes, it is an LC filter. Mine reads 20 kHz on the display too). It had a much deeper lip and I could not get enough solder out to break the joint with a knife blade. So I ended up using those little abrasive cut off wheels on a Dremel tool to slice between the body and the panel. If you hold the Dremel tool horizontally on the bench and move the filter forwards and backwards, you can control the depth and keep the wheel straight in the groove. It took me about 3 wheel replacements to get it all, but the case was untouched in the end (except little cuts at the corners), although I ground away quite a bit of the side panel lip
.
> If I can't resolder the original panel back on, I will cut a piece of that thin hobby tinplate to make a new side panel.
>
> Jim
>

Thank you for the information!

Kevin, WB4AIO.

--
http://kevinalfredstrom.com/
http://nationalvanguard.org/

1581. AGC mods?

Yahoo group: Racal6790GM
Date: 2010-12-28 12:42:41 UTC
From: Kevin Alfred Strom
Topic: 1581 Message: 1581

I have another question for the group:

Have any of you had any success in modifying the AGC circuit in the 6790? There is a momentary thump/distortion when a strong SSB station first begins transmitting, and I'd like to eliminate it if possible.

I have seen the Dallas Lankford modifications, but they don't address this issue.

With thanks,

Kevin, WB4AIO.

1582. 6790GM AGC Modification

Yahoo group: Racal6790GM
Date: 2010-12-28 18:01:49 UTC
From: johnmarkconnor
Topic: 1582 Message: 1582

Hello Gang,
This is my first post. The primary purpose of joining this group was to contribute this and other items of interest to users of the Racal 6790GM and 1792. I guess it took Kevin's inquiry regarding AGC improvements to get me jump started! I have developed a very similar modification for the 1792 receiver if anyone is interested. It requires that a transistor be installed for the A4 board and A5 ISB board. A good old 2N2222 will suffice and the holes are already present on the circuit boards. It also requires some minor rerouting of the hang circuit using an exacto knife cutting of lands on the boards. It really is not major or particularly difficult to do.
I have some mods for the Watkins Johnson 8718 AGC and RF gain function too if anyone may be interested.

RA6790GM A4 Board

1. Replace r45 with a 220k. (this resistor determines the slow position hang delay)
2. Replace both r52 and r53 with 33k resistors. (these determine the hang recovery time and can be played with to your taste)
3. Using a 1n914 or 1n4148 diode, connect the cathode at r65 end closest to the back end of the a4 board. (this is the end connected to c52) Connect one end of a 1.5k resistor to the anode of the diode. Connect the other end of the 1.5k resistor to r65 end that is closest to the front panel. In other words, you will have a diode in series with a 1.5k resistor. The anode is connected to one end of the 1.5k resistor. The cathode of the diode connects to the c52 end of r65 which is nearest to the back of the receiver. The other free end of the 1.5k resistor is connected to the u14 pin 9 end of r65 which is nearest to the front of the receiver. (speeds up attack time)
4. Replace r146 with a 100k resistor. (this resistor determines the medium position hang delay)

You can play with r45 and r146 if you prefer different hang times. In my opinion, the original 330k for r65 results in too slow hang time. Using 100k for r146 gives a hang time which is very usable for ssb and cw speeds over about 15 wpm. The hang time is short enough to keep the receiver from literally "hanging up" too long after the receive signal stops but long enough to give a nice hang effect without pumping effects on ssb or reasonably fast cw. I use the receiver in the medium position most of the time for tuning around but the slow position is nice when listening to a ssb round table or slow cw. Hey! I hope all of this is clear. Writing up "heathkit style" directions is not as easy as it appears!
Note that if you have the ISB board,(my 6790GM receiver does not have ISB but my 1792 does) you will need to make the corresponding changes to the A5 board.

The Dallas files at http://www.kongsfjord.no/ has a worthwhile modification for the volume control "range". Dallas is a pretty sharp fellow but it is apparent that he does not fully understand the hang agc circuit. The hang circuit is disabled in the short position with or without his mod. You can play with r55 the 1k resistor if you would like to change the short delay time constant.
I hope this information proves useful to the group. The 6790GM is a very nice receiver indeed.

Mark

1583. Re: [Racal6790GM] 6790GM AGC Modification

Yahoo group: Racal6790GM
Date: 2010-12-29 02:53:14 UTC
From: Kevin Alfred Strom
Topic: 1582 Message: 1583

On 12/28/2010 1:01 PM, johnmarkconnor wrote:
> Hello Gang, This is my first post. The primary purpose of
> joining this group was to contribute this and other items of
> interest to users of the Racal 6790GM and 1792. I guess it took
> Kevin's inquiry regarding AGC improvements to get me jump
> started! I have developed a very similar modification for the
> 1792 receiver if anyone is interested. It requires that a
> transistor be installed for the A4 board and A5 ISB board. A
> good old 2N2222 will suffice and the holes are already present on
> the circuit boards. It also requires some minor rerouting of the
> hang circuit using an exacto knife cutting of lands on the
> boards. It really is not major or particularly difficult to do.
> I have some mods for the Watkins Johnson 8718 AGC and RF gain
> function too if anyone may be interested.
>
>
>
> RA6790GM A4 Board
>
> 1. Replace r45 with a 220k. (this resistor determines the slow
> position hang delay) 2. Replace both r52 and r53 with 33k
> resistors. (these determine the hang recovery time and can be
> played with to your taste) 3. Using a 1n914 or 1n4148 diode,
> connect the cathode at r65 end closest to the back end of the a4
> board. (this is the end connected to c52) Connect one end of a
> 1.5k resistor to the anode of the diode. Connect the other end
> of the 1.5k resistor to r65 end that is closest to the front
> panel. In other words, you will have a diode in series with a
> 1.5k resistor. The anode is connected to one end of the 1.5k
> resistor. The cathode of the diode connects to the c52 end of
> r65 which is nearest to the back of the receiver. The other free
> end of the 1.5k resistor is connected to the u14 pin 9 end of
> r65 which is nearest to the front of the receiver. (speeds up
> attack time) 4. Replace r146 with a 100k resistor. (this
> resistor determines the medium position hang delay)
>
> You can play with r45 and r146 if you prefer different hang
> times. In my opinion, the original 330k for r65 results in too
> slow hang time. Using 100k for r146 gives a hang time which is
> very usable for ssb and cw speeds over about 15 wpm. The hang
> time is short enough to keep the receiver from literally "hanging
> up" too long after the receive signal stops but long enough to
> give a nice hang effect without pumping effects on ssb or
> reasonably fast cw. I use the receiver in the medium position
> most of the time for tuning around but the slow position is nice

> when listening to a ssb round table or slow cw. Hey! I hope all
> of this is clear. Writing up "heathkit style" directions is not
> as easy as it appears! Note that if you have the ISB board,(my
> 6790GM receiver does not have ISB but my 1792 does) you will need
> to make the corresponding changes to the A5 board.
>
> The Dallas files at http://www.kongsfjord.no/ has a worthwhile
> modification for the volume control "range". Dallas is a pretty
> sharp fellow but it is apparent that he does not fully understand
> the hang agc circuit. The hang circuit is disabled in the short
> position with or without his mod. You can play with r55 the 1k
> resistor if you would like to change the short delay time
> constant. I hope this information proves useful to the group.
> The 6790GM is a very nice receiver indeed. Mark
>
>

Wow, Mark -- thank you very much for the detailed information. I will be studying your ideas for possible incorporation into my circuit. I am looking for high fidelity on both SSB and AM and that requires quite different AGC characteristics for the two modes.

Someday I'd also like to add an analog S-meter.

Again, thank you for the ideas and detailed explanation.

73,

Kevin, WB4AIO.

1584. Re: [Racal6790GM] Filter Repair Tip

Yahoo group: Racal6790GM
Date: 2010-12-28 01:28:22 UTC
From: FRANCIS CARCIA
Topic: 1576 Message: 1584

I found all 4 mounting screws need to be tight so all grounds on the PC board get terminated to the case. I added bus wires to a 6 pole 400 Hz filter once to make sure there would be no floating grounds. I had one that just had a loose screw. Frank

--- On Mon, 12/27/10, toddroberts2001@aol.com <toddroberts2001@...> wrote:

From: toddroberts2001@... <toddroberts2001@...>
Subject: Re: [Racal6790GM] Filter Repair Tip
To: Racal6790GM@yahoogroups.com
Date: Monday, December 27, 2010, 8:20 PM

In a message dated 12/27/2010 8:01:30 P.M. Eastern Standard Time,
k8rz@... writes:

Hello Group:
I got a couple filters with my receiver that had loose I/O pins. It looked like opening up one side panel of each filter and making the repair on the inside was the only way to be sure the connections were OK and keep the bottom flat so the filter could be seated tight to the IF board.
While open, I took a couple photos of two filters which I thought would be of general interest and have posted in the Misc Folder: the 4 pole 400 Hz (8406) and the 16 kHz (8415). I also posted a close-up of the repair.
Repair was done with epoxy (JB Weld brand) around the pin and connection on the inside. On the 400 Hz filter, I needed to add a little solder "whisker" just above the feedthrough insulator to make sure the pin was captive.
This 5 min epoxy is thick enough to stay put around the pin while it is setting and dries as hard as glass in 24 hrs or so. It does not appear to be the least bit conductive.

Jim K8RZ

Hi Jim,
Thanks for the repair tips on the 6790 filters. I have done a similar repair job to several
filters here with loose pins and in one case a missing pin.

What I did was cut out a small square of pc board and left a circle of copper in the middle where I
drilled a matching size hole for the new pin made out of stiff brass wire.
I soldered the pin to the small circuit board square
then glued the square piece over the hole with epoxy with the new pin centered in the hole, then soldered a small flying lead to the new pin from the filter circuit. I think the small square piece of circuit board
gives the new pin a very strong and stable mounting and more surface area for the epoxy glue to stick to.

73 - Todd WD4NGG

1585. Re: 6790GM AGC Modification

Yahoo group: Racal6790GM
Date: 2010-12-28 20:14:36 UTC
From: KK7B
Topic: 1582 Message: 1585

Great post. I like the format of describing how to do each step physically followed by what effect it has electrically.

Rick KK7B

...a radio isn't really yours until you've made a few modifications

--- In Racal6790GM@yahoogroups.com, "johnmarkconnor" <356htp@...> wrote:
>
> Hello Gang,
> This is my first post. The primary purpose of joining this group was to contribute this and other items of interest to users of the Racal 6790GM and 1792. I guess it took Kevin's inquiry regarding AGC improvements to get me jump started! I have developed a very similar modification for the 1792 receiver if anyone is interested. It requires that a transistor be installed for the A4 board and A5 ISB board. A good old 2N2222 will suffice and the holes are already present on the circuit boards. It also requires some minor rerouting of the hang circuit using an exacto knife cutting of lands on the boards. It really is not major or particularly difficult to do.
> I have some mods for the Watkins Johnson 8718 AGC and RF gain function too if anyone may be interested.
>
>
>
> RA6790GM A4 Board
>
> 1. Replace r45 with a 220k. (this resistor determines the slow position hang delay)
> 2. Replace both r52 and r53 with 33k resistors. (these determine the hang recovery time and can be played with to your taste)
> 3. Using a 1n914 or 1n4148 diode, connect the cathode at r65 end closest to the back end of the a4 board. (this is the end connected to c52) Connect one end of a 1.5k resistor to the anode of the diode. Connect the other end of the 1.5k resistor to r65 end that is closest to the front panel. In other words, you will have a diode in series with a 1.5k resistor. The anode is connected to one end of the 1.5k resistor. The cathode of the diode connects to the c52 end of r65 which is nearest to the back of the receiver. The other free end of the 1.5k resistor is connected to the u14 pin 9 end of r65 which is nearest to the front of the receiver. (speeds up attack time)
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> You can play with r45 and r146 if you prefer different hang times. In my opinion, the original 330k for r65 results in too slow hang time. Using 100k for r146 gives a hang time which is very usable for ssb and cw speeds over about 15 wpm. The hang time is short enough to keep the receiver from literally "hanging up" too long after the receive signal stops but long enough to give a nice hang effect without pumping effects on ssb or reasonably fast cw. I use the receiver in the medium position most of the time for tuning around but the slow position is nice when listening to a ssb round table or slow cw. Hey! I hope all

of this is clear. Writing up "heathkit style" directions is not as easy as it appears!
> Note that if you have the ISB board,(my 6790GM receiver does not have ISB but my 1792 does) you will need to make the corresponding changes to the A5 board.
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> The Dallas files at http://www.kongsfjord.no/ has a worthwhile modification for the volume control "range". Dallas is a pretty sharp fellow but it is apparent that he does not fully understand the hang agc circuit. The hang circuit is disabled in the short position with or without his mod. You can play with r55 the 1k resistor if you would like to change the short delay time constant.
> I hope this information proves useful to the group. The 6790GM is a very nice receiver indeed.
> Mark
>

1586. New A6A2

Yahoo group: Racal6790GM
Date: 2011-01-12 17:31:47 UTC
From: fr5do
Topic: 1586 Message: 1586

Hello

My CPU card A6A2 RACAL6790/GM broke down.
I found a new, identical card made in England .
"A6A2" search on google gives the result.....

You can see it on my blog : http://radiotrans.over-blog.com/

best 73 s chris F6CNK/fr5do

1587. Re: New A6A2

Yahoo group: Racal6790GM
Date: 2011-01-12 18:18:45 UTC
From: phill.simmons.t21@btinternet.com
Topic: 1586 Message: 1587

Hi,

I manufacture new A6A2 microcomputer boards / cards for both RA1792 & RA6790/GM receivers.
They are available in a variety of options to suit your needs.
Please email, sales@... for further details.
You can also visit my web site <www.a6a2.co.uk> to see all products that are available. I have both the A08449 & A09666 versions of firmware available.
Best regards,73

de Phill Simmons GW0VYF

--- In Racal6790GM@yahoogroups.com, "fr5do" <f6cnk@...> wrote:
>
> Hello
>
> My CPU card A6A2 RACAL6790/GM broke down.
> I found a new, identical card made in England .
> "A6A2" search on google gives the result.....
>
> You can see it on my blog : http://radiotrans.over-blog.com/
>
> best 73 s chris F6CNK/fr5do
>

1588. Re: New A6A2

Yahoo group: Racal6790GM
Date: 2011-01-13 16:54:29 UTC
From: bigmacinplano
Topic: 1586 Message: 1588

An item that is long over due!!! Many good 6790s are dead due to bad A6A2 boards. Know what the cost are for various boards? Kits would be OK since most of the parts are available I would hope in US at lower price.
Richard K5WOR

1589. A4 Board Repair Experience

Yahoo group: Racal6790GM
Date: 2011-01-14 21:50:45 UTC
From: Jim Davey
Topic: 1589 Message: 1589

Hi All:
This post is a summary of my repair efforts on the A4 board, in hopes that it may save someone some time or help lead them to a resolution.

Symptoms:
1. BITE runs OK and recognizes a symmetrical SSB filter in slot 1, but cannot see other filters that are installed, no matter which slots are used.
2. LSB/USB selection does not shift the synthesizer frequencies and SSB selection does nothing from keypad entry. SSB reception is possible on CW mode with an appropriate BFO offset, though.

Troubleshooting:
-Filter matrix was initially probed for control voltages. Unusued filter outputs are shorted to ground through CR1-CR7 with a logic low through the 1K resistors. Found some empty slots with logic high when slot 1 was the only occupied slot. BW selection on keypad does not change any control voltages.

-Found data sheets for U1-U3 on the internet. Checked the truth table state for U1, a BCD-decimal decoder and found the decoder was not converting the BCD to the correct decimal output (only one state is testable, the one presented by the CPU at the time, but it was wrong, perhaps a lucky break for me)

-Checked the inputs and outputs of the quad latch, U2, and found two of the four latches were bad. One had both outputs (Q and not Q) at a logic high, and on the other I found 9v instead of a true logic high (13.9v) with the inverted output floating around like it was disconnected.

-Ordered new ICs for U1-U2 and replaced both. All problems cleared up. Noticed that the receiver seems to run through the BITE routine much quicker now.

-No idea how these two ICs went toes up. I did notice that the Vdd source voltage on the A4 board (14.07v) is less than a volt below what the TI data sheet I found says is the absolute maximum Vdd for the device. Newer CMOS devices I think have higher ratings, but I'm not much of a digital guy, so I won't try to offer an explanation.

Jim

1590. 6790/GM Front Panel

Yahoo group: Racal6790GM
Date: 2011-01-16 03:08:57 UTC
From: Bob Betts
Topic: 1589 Message: 1590

Hello All:
I think this may be a long shot, but I'd like to find a front panel to restore a 6790/GM.
If anyone has a parts radio, please contact me.
Thanks for reading,

Bob, N1KPR

http://www.bobsamerica.com
* Music * Audio * Radio *
"It's all good"

1591. Re: [Racal6790GM] 6790/GM Front Panel

Yahoo group: Racal6790GM
Date: 2011-01-16 19:05:35 UTC
From: mparkinson1
Topic: 1589 Message: 1591

I have one for 35.00+ shipping from the Ca.92866
Matt Parkinson Military Equipment & R 390A Depot Center

1592. Re: [Racal6790GM] 6790/GM Front Panel

Yahoo group: Racal6790GM
Date: 2011-01-16 23:15:19 UTC
From: Bob Betts
Topic: 1589 Message: 1592

Hi Matt:
I did find one, but this is only the first of the restorations, so if you don't mind, I will probably take you up on the offer in a few weeks, if you still have the panel.

Is the panel stripped, or are there any of the components (like the shaft encoder, PC Bd, key pads, displays, etc.) still attached (whether good or bad)?

Many thanks for responding,

73,
Bob

http://www.bobsamerica.com
* Music * Audio * Radio *
"It's all good"

--- On Sun, 1/16/11, mparkinson1 <mparkinson1@...> wrote:

From: mparkinson1 <mparkinson1@...>
Subject: Re: [Racal6790GM] 6790/GM Front Panel
To: Racal6790GM@yahoogroups.com
Date: Sunday, January 16, 2011, 2:05 PM

I have one for 35.00+ shipping from the Ca.92866
Matt Parkinson Military Equipment & R 390A Depot Center

1593. Re: [Racal6790GM] 6790/GM Front Panel

Yahoo group: Racal6790GM
Date: 2011-01-17 01:41:15 UTC
From: mparkinson1
Topic: 1589 Message: 1593

I have had this for a while no problem I no longer have the 6790 receiver I have a 6793 and will keep that one for sure.
Matt Parkinson Military Equipment & R 390A Depot Center

1594. Newbie questions about A6A2 compatibility in other RACAL receivers

Yahoo group: Racal6790GM
Date: 2011-01-20 02:28:19 UTC
From: jst5000can
Topic: 1594 Message: 1594

Hi,

I'm part way through a project to replace the Microcomputer Board and Serial Interface Board on a predecessor to the 6790, the 6778.

Since this is a challenging design project, I'm wondering if anyone has information on whether these boards are similar to those used in the 1792, 6775 and 6790 series?

The goal is to to use more modern components that are readily available and perhaps add features that the original design did not. Also to simplify loading updated software and remove the need for the backup battery.

Cheers,

John

1595. RA1792

Yahoo group: Racal6790GM
Date: 2011-01-28 22:26:58 UTC
From: Tony
Topic: 185 Message: 1595

Hi,
RA1792 is back up and running (Big thanks to Mike D for his time and effort in resurrecting the processor board after a bad battery leak)
I'd like to put the thing in a case or rack.
Sometimes I take it around to different locations.
Looking at a flight case for the 19" rack - anyone know what size is required as I'm not well up with the U sizing and things like that.
73
Tony
G6XMO
Sheffield

1596. Re: [Racal6790GM] RA1792

Yahoo group: Racal6790GM
Date: 2011-01-28 23:19:29 UTC
From: Bob Betts
Topic: 185 Message: 1596

Tony:I'm not familiar (from memory) with that radio (I'm still in the office and can't look it up).
Just measure the height of the front panel.Each Rack Unit (RU) is 1.75 in.3RU is 5.25", 4RU is 7", etc.
Bob

http://www.bobsamerica.com* Music * Audio * Radio *"It's all good"

--- On Fri, 1/28/11, Tony <hamfm1000@...> wrote:

From: Tony <hamfm1000@....uk>
Subject: [Racal6790GM] RA1792
To: Racal6790GM@yahoogroups.com
Date: Friday, January 28, 2011, 5:26 PM

Hi,

RA1792 is back up and running (Big thanks to Mike D for his time and effort in resurrecting the processor board after a bad battery leak)

I'd like to put the thing in a case or rack.

Sometimes I take it around to different locations.

Looking at a flight case for the 19" rack - anyone know what size is required as I'm not well up with the U sizing and things like that.

73

Tony

G6XMO

Sheffield

1597. Re: [Racal6790GM] RA1792

Yahoo group: Racal6790GM
Date: 2011-01-29 07:43:32 UTC
From: casy_ch@tbwil.ch
Topic: 185 Message: 1597

Hello Tony

My RA-1792's have a panel of 133mn (5.25in) height = 3 units.
Width 483 mm (19 in)
Depth 458 mm (18 in)
Weight 14kg (31lbs)

1 rack unit = 44.5 mm (1.75 in)

Have a look at:
http://en.wikipedia.org/wiki/19-inch_rack

73 de Jean-Claude, HE9EZX
Switzerland

----- Original Message -----
From: Bob Betts
To: Racal6790GM@yahoogroups.com
Sent: Saturday, January 29, 2011 12:19 AM
Subject: Re: [Racal6790GM] RA1792

Tony:
I'm not familiar (from memory) with that radio (I'm still in the office and can't look it up).

Just measure the height of the front panel.
Each Rack Unit (RU) is 1.75 in.
3RU is 5.25", 4RU is 7", etc.

Bob

http://www.bobsamerica.com
* Music * Audio * Radio *
"It's all good"

--- On Fri, 1/28/11, Tony <hamfm1000@...> wrote:

From: Tony <hamfm1000@...>
Subject: [Racal6790GM] RA1792
To: Racal6790GM@yahoogroups.com
Date: Friday, January 28, 2011, 5:26 PM

Hi,
RA1792 is back up and running (Big thanks to Mike D for his time and effort in resurrecting the processor board after a bad battery leak)
I'd like to put the thing in a case or rack.
Sometimes I take it around to different locations.
Looking at a flight case for the 19" rack - anyone know what size is required as I'm not

well up with the U sizing and things like that.
73
Tony
G6XMO
Sheffield

1598. Re: Newbie questions about A6A2 compatibility in other RACAL receivers

Yahoo group: Racal6790GM
Date: 2011-02-03 14:49:13 UTC
From: fr5do
Topic: 1594 Message: 1598

Hello

On my Racal 6790/gm I changed the following cards which come from a Racal 1792:
first mixer board A2
main IF / AF A4
I added the card RF Amplifier Modules A1, no problem.
Everything works ...

I also changed the card microprocessor (A6A2.CO.UK)

Cheers, Chris F6CNK

--- In Racal6790GM@yahoogroups.com, "jst5000can" <john.strupat@...> wrote:
>
> Hi,
>
> I'm part way through a project to replace the Microcomputer Board and Serial Interface Board on a predecessor to the 6790, the 6778.
>
> Since this is a challenging design project, I'm wondering if anyone has information on whether these boards are similar to those used in the 1792, 6775 and 6790 series?
>
> The goal is to to use more modern components that are readily available and perhaps add features that the original design did not. Also to simplify loading updated software and remove the need for the backup battery.
>
> Cheers,
>
> John
>

1599. Restored and Modified 6790

Yahoo group: Racal6790GM
Date: 2011-02-06 01:47:45 UTC
From: Bob Betts
Topic: 1599 Message: 1599

Hi Group:
I just finished the restoration and mods to a well-used 6790/GM.
If you are a purist, don't holler at me for heresy - I'm not a collector; I'm a user...besides, it was pretty much a parts radio and not so collectable anyhow.
Once again, thanks to Gary for the LED kit and the LCD displays and Scott for the panel hardware.
Pics in the "photos" section under, "N1KPR's Restoration."

Good sigs to y'all,

bb

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1600. Re: Restored and Modified 6790

Yahoo group: Racal6790GM
Date: 2011-02-07 16:46:24 UTC
From: Richard
Topic: 1599 Message: 1600

I think it looks really nice!!!

Richard K5WOR

1601. Re: Restored and Modified 6790

Yahoo group: Racal6790GM
Date: 2011-02-08 11:05:44 UTC
From: driftermick
Topic: 1599 Message: 1601

Bob.

And, being a collector, myself, I covered one eye, and,
it does look cool. nice job.

Drifter...

--- In Racal6790GM@yahoogroups.com, "Richard" <K5wor@...> wrote:
>
> I think it looks really nice!!!
>
> Richard K5WOR
>

1602. Re: Restored and Modified 6790

Yahoo group: Racal6790GM
Date: 2011-02-07 14:36:58 UTC
From: KK7B
Topic: 1599 Message: 1602

Very cool.

Rick KK7B

--- In Racal6790GM@yahoogroups.com, Bob Betts <rwbetts@...> wrote:
>
>
>
>
>
>
> Hi Group:
> I just finished the restoration and mods to a well-used 6790/GM.
> If you are a purist, don't holler at me for heresy - I'm not a collector; I'm a user...besides, it was pretty much a parts radio and not so collectable anyhow.
> Once again, thanks to Gary for the LED kit and the LCD displays and Scott for the panel hardware.
> Pics in the "photos" section under, "N1KPR's Restoration."
>
> Good sigs to y'all,
>
> bb
>
>
> http://www.bobsamerica.com
> * Music * Audio * Radio *
> "It's all good"
>

1603. 6790- many dead recievers

Yahoo group: Racal6790GM
Date: 2011-02-28 06:36:14 UTC
From: momnpear
Topic: 1603 Message: 1603

I am helping a non profit get some of these 6790 Racals running. They have been out of service for years.I have about 15 to choose from and brought home 3 .
The first one: I replaced the NiCad memory battery and the power supply is o.k., the screen lit up, there is audio at the phone jack, BUT the keypads have no response. You cannot enter anything.No BITE test, no fault lamp.
I think the Eproms may be scrambled, but maybe someone here has resurrected long retired racals and found similar issues.?
Thanks,
Tom Harris
Petaluma, CA

1604. Re: 6790- many dead recievers

Yahoo group: Racal6790GM
Date: 2011-02-28 14:19:16 UTC
From: znww5
Topic: 1603 Message: 1604

--- In Racal6790GM@yahoogroups.com, "momnpear" <momnpear@...> wrote:
>
> I am helping a non profit get some of these 6790 Racals running. They have been out of service for years.I have about 15 to choose from and brought home 3 .
> The first one: I replaced the NiCad memory battery and the power supply is o.k., the screen lit up, there is audio at the phone jack, BUT the keypads have no response. You cannot enter anything.No BITE test, no fault lamp.
> I think the Eproms may be scrambled, but maybe someone here has resurrected long retired racals and found similar issues.?
> Thanks,
> Tom Harris
> Petaluma, CA
>

Hi Tom,

My experience is based on renovating more than 15 RA1792s, which I believe are a sister radio to the 6790. At least the PSU is up and running, which is a good start - I'm assuming that you've checked all the voltage lines as being OK.

Two things stand out with the microprocessor boards on these radios:

1. The Nicad leaks and damages the PCB tracks
2. The EPROM and CPU pins oxidise over time

1. You often find green powdery deposits, fragile tracks and eroded IC pins. Areas above the NiCad can also be affected. The alkaline contamination can be neutralised using white vinegar and the tracks continuity tested.

2. Sometimes it is sufficient to just lever the ICs partly out of their sockets and then press them back into position - this breaks the layer of oxidation which has built up and can be a quick fix.
If not, it is worth removing the chips (taking static precautions of course!) and cleaning both the IC sockets and chip pins with a suitable switch cleaner.

So far I have not come across corrupted EPROMs, but maybe I was just lucky. BTW, the premium receivers archive have partial manuals for the 6590 and full manuals for the /M version.

Hope this helps - good luck :-)

David, G4IRQ

1605. Re: [Racal6790GM] 6790- many dead recievers

Yahoo group: Racal6790GM
Date: 2011-02-28 14:21:50 UTC
From: Dan Rae
Topic: 1603 Message: 1605

On 2/27/2011 10:36 PM, momnpear wrote:
> I am helping a non profit get some of these 6790 Racals running. They have been out of service for years.I have about 15 to choose from and brought home 3 .
> The first one: I replaced the NiCad memory battery and the power supply is o.k., the screen lit up, there is audio at the phone jack, BUT the keypads have no response. You cannot enter anything.No BITE test, no fault lamp.
> I think the Eproms may be scrambled, but maybe someone here has resurrected long retired racals and found similar issues.?
Hi Tom,

I have resurrected many GMs mostly not for profit, but I have never yet found one with faulty eproms. I did find a completely blank 2708 in an RA6778 but that was another long story... It is more likely to be damage to the A6A2 board from leaking alkali from the old Nicad battery. This can cause a load of problems any of which can stop the cpu board working. The correct replacement NiMH can be had from Mouser. These will not leak in the future.

You don't say what is on the display on power up. All zeros is the cpu reset state. Other displays may give a clue.

The other common problem after long storage is a failed tantalum capacitor somewhere. Checking the supply rails should be your first step.

Good luck,

Dan

ac6ao

1606. Re: [Racal6790GM] 6790- many dead recievers

Yahoo group: Racal6790GM
Date: 2011-02-28 17:44:56 UTC
From: gewingerd@netzero.com
Topic: 1603 Message: 1606
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1607. Any interest in a new microprocessor board design?

Yahoo group: Racal6790GM
Date: 2011-02-28 17:51:57 UTC
From: jst5000can
Topic: 1607 Message: 1607

I'm working through reverse engineering the micro board for the RACAL 6778C and see that a very similar board is used in the 6790 series, and perhaps others. Some details here http://ve3pcn.ve3kbr.com/
Would appreciate any comments or interest in the result from the group as I have put substantial effort toward it already. The goal is a direct replacement with no EPROMs and no backup battery.
Being very optimistic, I'm also looking for any code listings for any and all RACAL receivers in .hex, .bin or even .asm formats.
Email off group if needed.
Thanks,
John London, ONCANADA

1608. Re: [Racal6790GM] Any interest in a new microprocessor board design?

Yahoo group: Racal6790GM
Date: 2011-02-28 18:20:19 UTC
From: Dan Rae
Topic: 1607 Message: 1608

On 2/28/2011 9:51 AM, jst5000can wrote:
>
>
> I'm working through reverse engineering the micro board for the RACAL
> 6778C and see that a very similar board is used in the 6790 series,
> and perhaps others.
> Some details here http://ve3pcn.ve3kbr.com/

Historically, the first use of the F8 processor was in the 6778 (A or B), with each section of the control circuitry on a separate card, about six in all from memory. The F8 was the first cpu in one IC, designed by the man who went on to found Intel, but even that needed the separate SMI IC. Similar circuitry was used in the 6778C / 6790 / 6790/GM and RA1792 but there compressed onto one card for the CPU parts with a separate remote control card. Later versions of the GM and other later receivers like the 6830 and 6793 used the Z80 processor, while going to a lot of trouble in the GM to have it remain seeming identical to the user. For some reason the UK 1792 continued to use the F8 stuff even when it was obsolete. In later receivers they went to the 68000 and so on...

As has been previously posted here there is a company in the UK that has been manufacturing new A6A2 boards for the GM and 1792: I'm not sure where they source the F8 cpu and smi, these are hard to find nowadays. Personally I have always managed to fix the boards I have had.

There are maybe a dozen different firmware versions for the GM, and maybe two hundred for the 1792, this needed different versions for different filter sets apart from anything else.

To my mind the worst thing about the GM user interface is the stupid choice of tuning speeds in the standard firmware, but there is a version out there with 1, 10 and 100 Hz steps which is a major improvement. The 1792 had a really nasty tuning rate speed up thing which takes a lot of getting used to...

73

Dan

ac6ao / g3ncr

1609. RE: [Racal6790GM] Any interest in a new microprocessor board design?

Yahoo group: Racal6790GM
Date: 2011-02-28 18:26:14 UTC
From: Carcia, Francis A HS
Topic: 1607 Message: 1609

The NSC800 was used in the RA6830. Z80 with a few more features.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Dan Rae
Sent: Monday, February 28, 2011 1:20 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Any interest in a new microprocessor board design?

On 2/28/2011 9:51 AM, jst5000can wrote:
>
>
> I'm working through reverse engineering the micro board for the RACAL
> 6778C and see that a very similar board is used in the 6790 series,
> and perhaps others.
> Some details here http://ve3pcn.ve3kbr.com/

Historically, the first use of the F8 processor was in the 6778 (A or B), with each section of the control circuitry on a separate card, about six in all from memory. The F8 was the first cpu in one IC, designed by the man who went on to found Intel, but even that needed the separate SMI IC. Similar circuitry was used in the 6778C / 6790 / 6790/GM and RA1792 but there compressed onto one card for the CPU parts with a separate remote control card. Later versions of the GM and other later receivers like the 6830 and 6793 used the Z80 processor, while going to a lot of trouble in the GM to have it remain seeming identical to the user. For some reason the UK 1792 continued to use the F8 stuff even when it was obsolete. In later receivers they went to the 68000 and so on...

As has been previously posted here there is a company in the UK that has been manufacturing new A6A2 boards for the GM and 1792: I'm not sure where they source the F8 cpu and smi, these are hard to find nowadays. Personally I have always managed to fix the boards I have had.

There are maybe a dozen different firmware versions for the GM, and maybe two hundred for the 1792, this needed different versions for different filter sets apart from anything else.

To my mind the worst thing about the GM user interface is the stupid choice of tuning speeds in the standard firmware, but there is a version out there with 1, 10 and 100 Hz steps which is a major improvement. The 1792 had a really nasty tuning rate speed up thing which takes a lot of getting used to...

73

Dan

ac6ao / g3ncr

1610. many dead 6790s

Yahoo group: Racal6790GM
Date: 2011-03-03 03:00:24 UTC
From: momnpear
Topic: 1610 Message: 1610

I posted a while back regarding a pile of these. They all suffer from corrosion due to a salty environment. I turned them over to a friend who is a system analyzer engineer ,and thought you might benefit from what he has found so far:

Corrosion is indeed what cause the flame on the other CPU board
(under the ribbon connector). That one may still be fixable.

Actually had it working really well on 20 meters and AM broadcast this
afternoon. Lots of small problems. Mostly with wet slug tantalum caps. If there
weren't so many I'd replace them all. One shorted on the 1st mixer board
and got a small choke so hot it desoldered itself from the board and was flopping
around inside its box.

Chasing intermittent error messages now which is taking a lot of time.
There are two PLL's...one for the VFO and one for the BFO. The BFO is
driving me nuts because when it gets out of range the BITE tests cannot
cal the IF's and identify the filters. Damn this thing is hard to troubleshoot.
If I can get the PLL's right everything else should be easy.

I'm learning a lot and am thinking about a couple of test fixtures that will help
going through the stack or radios. NO info on alignment in the book. Thats a problem
for tomorrow.
Steve
p.s.-doesn't work very well on SSB signals....no better than old boatanchors,
no product detector

1611. one more question from my restorer

Yahoo group: Racal6790GM
Date: 2011-03-03 16:18:45 UTC
From: momnpear
Topic: 1611 Message: 1611

I'd like to know how to determine how to decode the error code on the four LED's on the back of A9 (front panel board). Its labelled as 'unlock indicator' but no where in the book does it give the codes so its kinda worthless.

Also seeing an error message on the main LCD "P4OLOLOL". I believe it means the BFO PLL is unlocked but once again, not documented.

Thanks,
Tom Harris
Petaluma CA

1612. Re: [Racal6790GM] one more question from my restorer

Yahoo group: Racal6790GM
Date: 2011-03-03 16:57:03 UTC
From: Dan Rae
Topic: 1611 Message: 1612

On 3/3/2011 8:18 AM, momnpear wrote:
> I'd like to know how to determine how to decode the error code on the
> four LED's on the back of A9 (front panel board). Its labelled as 'unlock
> indicator' but no where in the book does it give the codes so its kinda
> worthless.
>
> Also seeing an error message on the main LCD "P4OLOLOL". I believe
> it means the BFO PLL is unlocked but once again, not documented.
>
> Thanks,
> Tom Harris
> Petaluma CA
>
Tom, most of this has been covered before and should be in the archive.
One of the OOL LEDs is a spare. The BFO one can be found by switching
to AM, when it will come on. The other two can be isolated by removing
the reference to each in turn.

That frequency display is not an error message of any significance but
one which one might normally see after replacing a battery slowly enough
that the RAM gets corrupted. If it is not cleared by entering a
frequency manually it might indicate a faulty RAM.

All the alignment stuff is available in some of the manuals, mainly for
setting up the AGC; what isn't can be deduced from the RA1792 manual
which is available on line, for example the frequencies for aligning the
LPF. However I would not advise touching that unless you have very good
test gear.

Also I've no idea why you think it doesn't have a product detector, it
does and furthermore it also acts as a very efficient synchronous
detector for AM.

73

Dan

ac6ao / g3ncr

1613. Re: [Racal6790GM] one more question from my restorer

Yahoo group: Racal6790GM
Date: 2011-03-03 17:29:19 UTC
From: gewingerd@netzero.com
Topic: 1611 Message: 1613
Attachments: 4 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1614. 6790 dead recievers

Yahoo group: Racal6790GM
Date: 2011-03-04 05:33:34 UTC
From: momnpear
Topic: 1614 Message: 1614

Thanks all for the help. My engineer buddy has one almost sorted and now has a good handle on what to watch for. Your posts have been great!
Just to clarify, these sets have lived in a damp salty enviromnent for at least 5 years, so corrosion is rampant. The othe major issue he has found is the Tantalum caps.Some are rated at 20V and are running close to that in the power supply. He had one almost set all cleared up and "pop" another cap failed.I believe he is just going to change all the Tantalums in the future.
For a batery, I got a 2.4V 750 maH unit and a plug for servos from a hobby store. Then he can remote mount it (in a plastic bag)so it would be easy to change and won't leak corrosives.
I'll give a full report when one or 2 are finished. Maybe out of 15 or so we can get 8-10 good ones w/out buying boards.
Steve also has Eprom flashing/programming setups and can replicate any good data sets.
Smart cooky! BUT he is on dial-up still so I copy whatever you send me.
Tom Harris,
Petaluma

1615. Re: [Racal6790GM] 6790 dead recievers

Yahoo group: Racal6790GM
Date: 2011-03-04 10:10:31 UTC
From: gewingerd@netzero.com
Topic: 1614 Message: 1615
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1616. Does anyone stateside repair Racal 6790GM receivers?

Yahoo group: Racal6790GM
Date: 2011-03-28 19:55:45 UTC
From: Ken
Topic: 1616 Message: 1616

First, a little history:

Bought my 6790 in the late 80's I think. Interest in radio waned, so I put it in the closet. Years later, decided to play radio again. The Racal wouldn't work. A local friend repaired it; a transistor or chip in the long display board, I think. In any case, it worked for a good while. Then, interests changed again . . . . it went back into the closet.

Pulled it out a few years ago and again, it's inop. This is the second time, same symptoms, both failures happened while in the closet.

Now, I'd like to get it going again. Still have interest in radio.

I've read hundreds of posts here and followed a lot of the troubleshooting advice. But I'm getting frustrated. Only test equipment I have is a DVM. This failure is probably beyond my capabilities.

Symptoms:

Display comes up all zeros most of the time. Occasionally, it displays some random 2's or 3's, but powering it OFF and back ON will produce all zeroes. BITE doesn't happen, either automatically or manually. The battery had been previously replaced with a NiCad before I bought the radio. I have now removed that battery. The etch does not look bad; looks quite dull in places where the battery used to be, but nothing appears damaged from old battery poo. There doesn't appear to be any corrosion under the ribbon cable connector, the etches going in that direction are all shiny/bright.

What I've Done:

With a very bright light and jewelers glasses, I've inspected the CPU board intensely. I've done some point-to-point continuity testing. I soldered wire through a few plated-through holes in "Z" shape just in case corrosion had eaten the metal. (the holes in the area where the original battery was mounted)

At this time, I plan to check supply voltages to the integrated circuits following the CPU board diagram in the Files section of this group. Beyond that, I'm at a loss. Do not want to scrap the receiver, it's probably in 99% perfect condition. Only the 1% is keeping it from working, maybe one simple component.

So if (when) I bomb out, what are my options? Is there a reputable person that repairs these for group members?

1617. RE: [Racal6790GM] Does anyone stateside repair Racal 6790GM receivers?

Yahoo group: Racal6790GM
Date: 2011-03-28 20:05:30 UTC
From: Carcia, Francis A HS
Topic: 1616 Message: 1617

Sounds like a job for Gary Wingerd. He does good work

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Ken
Sent: Monday, March 28, 2011 3:56 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Does anyone stateside repair Racal 6790GM receivers?

First, a little history:

Bought my 6790 in the late 80's I think. Interest in radio waned, so I put it in the closet. Years later, decided to play radio again. The Racal wouldn't work. A local friend repaired it; a transistor or chip in the long display board, I think. In any case, it worked for a good while. Then, interests changed again . . . . it went back into the closet.

Pulled it out a few years ago and again, it's inop. This is the second time, same symptoms, both failures happened while in the closet.

Now, I'd like to get it going again. Still have interest in radio.

I've read hundreds of posts here and followed a lot of the troubleshooting advice. But I'm getting frustrated. Only test equipment I have is a DVM. This failure is probably beyond my capabilities.

Symptoms:

Display comes up all zeros most of the time. Occasionally, it displays some random 2's or 3's, but powering it OFF and back ON will produce all zeroes. BITE doesn't happen, either automatically or manually. The battery had been previously replaced with a NiCad before I bought the radio. I have now removed that battery. The etch does not look bad; looks quite dull in places where the battery used to be, but nothing appears damaged from old battery poo. There doesn't appear to be any corrosion under the ribbon cable connector, the etches going in that direction are all shiny/bright.

What I've Done:

With a very bright light and jewelers glasses, I've inspected the CPU board intensely. I've done some point-to-point continuity testing. I soldered wire through a few plated-through holes in "Z" shape just in case corrosion had eaten the metal. (the holes in the area where the original battery was mounted)

At this time, I plan to check supply voltages to the integrated circuits following the CPU board diagram in the Files section of this group. Beyond that, I'm at a loss. Do not want to scrap the receiver, it's probably in 99% perfect condition. Only the 1% is keeping it from working, maybe one simple component.

So if (when) I bomb out, what are my options? Is there a reputable person that repairs these for group members?

1618. Re: [Racal6790GM] Does anyone stateside repair Racal 6790GM receivers?

Yahoo group: Racal6790GM
Date: 2011-03-29 09:18:48 UTC
From: gewingerd@netzero.com
Topic: 1616 Message: 1618
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1619. Re: [Racal6790GM] Does anyone stateside repair Racal 6790GM receivers?

Yahoo group: Racal6790GM
Date: 2011-03-29 12:30:15 UTC
From: Phill Simmons
Topic: 1616 Message: 1619

Hi Ken,

As Gary says A6A2 can supply a new board. We can supply either fully assembled and tested or in a kit form or any components seperately as you need.

Prices are:
1). Fully built and tested $285.19 + $25 airmail. (includes the 9666 firmware)
2). Kit of components, (except CPU/SMI/EPROMS) $207.77 + $25 airmail
3). Blank board $64.57 + $10 airmail

We can supply CPU/SMI/EPROMS as well so please let me know if you require any of these.
All orders or enquiries can be made through the www.a6a2.co.uk web site or sales@...

If you need any further information then please don't hesitate to contact us.
Rgds,
Phill

From: "gewingerd@..." <gewingerd@...>
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, 29 March, 2011 10:18:48
Subject: Re: [Racal6790GM] Does anyone stateside repair Racal 6790GM receivers?

Note: Forwarded message is attached.

Ken,

I can look at the card, I charge $35.00 an hour plus parts and shipping. Replacement cards New from the UK do work, I have bought them myself, contact sales@... Cards come complete and 100% on sockets.

Thanks,
Gary

Please note: message attached

From: "Ken" <ken@...>
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Does anyone stateside repair Racal 6790GM receivers?
Date: Mon, 28 Mar 2011 19:55:45 -0000

1620. Re: Does anyone stateside repair Racal 6790GM receivers?

Yahoo group: Racal6790GM
Date: 2011-03-30 01:55:36 UTC
From: Ken
Topic: 1616 Message: 1620

Your fee is certainly reasonable and you come highly recommended by others here on the forum.

Using your "Troubleshooting the RACAL" document, I've pulled the connectors as directed. Then turned the power ON. The frequency displays some 0's, 1's, 2's, and 3's, but doesn't respond to any button pushing. The square LCD displays "00" in the upper right hand side. NOTE: the A6A2 board has no battery at this time, don't know if that makes a difference. Some of the little red LEDs on the back of the display board are lit, but not all four. When I plugged all the boards back in, all four little LEDs were lit.

I checked the power supply output pins E1 - E7. There, I found the proper regulated and unregulated voltabes. So I think the power supply is functioning properly.

Even with offers to help me via emails, I feel woefully incompetent to go any further. In a previous life, I was a computer technician and traveling technical support . . . "Have Scope, Will Travel". But as I told Steve, that was decades ago. I've pretty much lost all of those skills.

So at this point, I'm not sure what to do. Send you the A6A2 card or the whole receiver. It's not that much more expensive to send the receiver via UPS. Then, I'll know you've checked everything out and I'll be good to go when it comes back. You could even update the receiver with mods and upgrades while you have it. So, I'm leaning towards sending the receiver if that is good with you. I guess we should go to email at this point to keep from burdening the group with our discussion.

ken@kenandjudy.us <mailto:ken@...>

Ken

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Ken,
>
> I can look at the card, I charge $35.00 an hour plus parts and shipping.
> Replacement cards New from the UK do work, I have bought them myself, contact sales@... Cards come complete and 100% on sockets.
>
> Thanks,
> Gary

>
> Please note: message attached
>
> From: "Ken" ken@...
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Does anyone stateside repair Racal 6790GM
receivers?
> Date: Mon, 28 Mar 2011 19:55:45 -0000
>
>
>
>
> First, a little history:
>
> Bought my 6790 in the late 80's I think. Interest in radio waned, so I
> put it in the closet. Years later, decided to play radio again. The
> Racal wouldn't work. A local friend repaired it; a transistor or chip
> in the long display board, I think. In any case, it worked for a good
> while. Then, interests changed again . . . . it went back into the
> closet.
>
> Pulled it out a few years ago and again, it's inop. This is the second
> time, same symptoms, both failures happened while in the closet.
>
> Now, I'd like to get it going again. Still have interest in radio.
>
> I've read hundreds of posts here and followed a lot of the
> troubleshooting advice. But I'm getting frustrated. Only test
equipment
> I have is a DVM. This failure is probably beyond my capabilities.
>
>
>
> Symptoms:
>
> Display comes up all zeros most of the time. Occasionally, it displays
> some random 2's or 3's, but powering it OFF and back ON will produce
all
> zeroes. BITE doesn't happen, either automatically or manually. The
> battery had been previously replaced with a NiCad before I bought the
> radio. I have now removed that battery. The etch does not look bad;
> looks quite dull in places where the battery used to be, but nothing
> appears damaged from old battery poo. There doesn't appear to be any
> corrosion under the ribbon cable connector, the etches going in that
> direction are all shiny/bright.
>
>
>
> What I've Done:
>

> With a very bright light and jewelers glasses, I've inspected the CPU
> board intensely. I've done some point-to-point continuity testing. I
> soldered wire through a few plated-through holes in "Z" shape just in
> case corrosion had eaten the metal. (the holes in the area where the
> original battery was mounted)
>
> At this time, I plan to check supply voltages to the integrated
circuits
> following the CPU board diagram in the Files section of this group.
> Beyond that, I'm at a loss. Do not want to scrap the receiver, it's
> probably in 99% perfect condition. Only the 1% is keeping it from
> working, maybe one simple component.
>
> So if (when) I bomb out, what are my options? Is there a reputable
> person that repairs these for group members?
>

1621. Re: [Racal6790GM] Re: Does anyone stateside repair Racal 6790GM receiv ers?

Yahoo group: Racal6790GM
Date: 2011-03-30 09:15:07 UTC
From: gewingerd@netzero.com
Topic: 1621 Message: 1621
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1622. RACAL MA 2232R TUNING AID

Yahoo group: Racal6790GM
Date: 2011-04-02 16:34:48 UTC
From: Federico
Topic: 1622 Message: 1622

Hi to All my friends, here in Italy I have found an ancillary unit an MA2232R TUNING AID that seems to be a sort of panoramic display. Some of you knows this unit and can give me some informations, operational infos and/or Manual. 73 de Federico IZ1FID

1623. 6790 sporadic noise and other issues

Yahoo group: Racal6790GM
Date: 2011-04-07 20:41:40 UTC
From: aruschak@yahoo.com
Topic: 1623 Message: 1623

I am experiencing what can best be described as intermittent sporadic 'jumps' in the audio floor of the receiver. Can't determine if this is in the IF or AF stage yet but it occurs regardless of AGC settings, band or antenna input. Also, (and this is where it gets wierd) the noise phenomenon sometimes occurs when even touching the front panel or the memebrane keypad - as if body capactive coupling is affecting this. Verified all boards and cable assembies are seated. Any experience with this or directions to head would be really appreciated. Thanks! Andy KK7TR

1624. Re: 6790 sporadic noise and other issues

Yahoo group: Racal6790GM
Date: 2011-04-08 14:08:01 UTC
From: W8KZW
Topic: 1623 Message: 1624

I have recently noticed a similar problem with mine ... almost sounds as if the sensitivity fades for a few seconds, then comes back up.

The antenna and feedline are fine - the issue is internal to the rx.

Have not noticed any relationship to proximity of my hand, however.

Jeff
W8KZW

1625. RE: [Racal6790GM] Re: 6790 sporadic noise and other issues

Yahoo group: Racal6790GM
Date: 2011-04-08 15:16:11 UTC
From: Carcia, Francis A HS
Topic: 1623 Message: 1625

I've seen the same issue with my RA6830. It has been traced to the UA757 IF amplifier oscillating.

This can be fixed by reducing the gain a bit or loading the input with a 470 to 1000 ohms.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of W8KZW
Sent: Friday, April 08, 2011 10:08 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: 6790 sporadic noise and other issues

I have recently noticed a similar problem with mine ... almost sounds as if
the sensitivity fades for a few seconds, then comes back up.

The antenna and feedline are fine - the issue is internal to the rx.

Have not noticed any relationship to proximity of my hand, however.

Jeff
W8KZW

1626. Re: 6790 sporadic noise and other issues

Yahoo group: Racal6790GM
Date: 2011-04-09 17:20:15 UTC
From: aruschak@yahoo.com
Topic: 1623 Message: 1626

Thanks for the feedback. Another item I forgot to mention is that the Signal RF-Meter has little to no deflection in response to otherwise strong signal variations. Pretty much stays 3 -5 bars regardless of input level variations.

Andy KK7TR

1627. Re: [Racal6790GM] Re: 6790 sporadic noise and other issues

Yahoo group: Racal6790GM
Date: 2011-04-09 21:24:23 UTC
From: FRANCIS CARCIA
Topic: 1623 Message: 1627

OK that sounds like an AGC problem and your loss of sensitivity is most likely due to the IF amp going into saturation. You might check with Gary if he could repair the radio for you. The AGC is fairly complicated if you are not good with analog circuits. Frank

--- On Sat, 4/9/11, aruschak@yahoo.com <aruschak@...> wrote:

From: aruschak@... <aruschak@yahoo.com>
Subject: [Racal6790GM] Re: 6790 sporadic noise and other issues
To: Racal6790GM@yahoogroups.com
Date: Saturday, April 9, 2011, 1:20 PM

Thanks for the feedback. Another item I forgot to mention is that the Signal RF-Meter has little to no deflection in response to otherwise strong signal variations. Pretty much stays 3 -5 bars regardless of input level variations.

Andy KK7TR

1628. Bite error 16.

Yahoo group: Racal6790GM
Date: 2011-04-15 07:17:15 UTC
From: natone7
Topic: 1628 Message: 1628

Hi all,
Receives ok on AM, FM and CW (can clarify SSB on CW) but is garbled on USB and goes dead quite on LSB. This radio has the ISB option with seperate filters for sideband. LSB filter is in slot one. Are the filters stuffed? Help with this problem would be greatly appreciated.
Regards Steve.

1629. Receiver almost works

Yahoo group: Racal6790GM
Date: 2011-04-15 16:49:03 UTC
From: Ken
Topic: 1629 Message: 1629

Gary did his magic with the A6A2 board and it works now. He also tested my front panel board and remote board. All good.

Now, when I turn on the radio, stuff actually works. Displays come on and buttons work. But no reception. Fault light is ON.

Here are the symptoms:

Turn the radio ON all displays come on properly. Run BITE and almost instantly get an "01" on the frequency display. Restart BITE with Lock/CW and almost instantly, "01" on the frequency display.

Turn the radio OFF and back ON to get control again. Fault light is ON.

All front panel buttons seem to work. Manual/Slow/Medium/Fast AGC works (from the sound of the white noise). Can tell the difference in the AM/CW/USB/LSB filter selection (via the noise). But no signal reception. Not even the local 50KW clear channel station 2 miles from my home.

Run BITE and and get the "01" on the display. Must turn the radio OFF and back ON to get control back.

I've checked power supply voltages, they're normal.

1630. J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-16 17:25:28 UTC
From: Hans Remeeus
Topic: 1630 Message: 1630

Hello!

Can someone help me with the pin layout of the J3 AF Output connector on
the rear of the RA1792/6790?

I want to connect an external loudspeaker.

Thanks in advance!

--
73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

1631. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-16 17:30:49 UTC
From: Phill Simmons
Topic: 1630 Message: 1631

Hi,

You need pins 7 & 18 suitable for a 15 Ohm speaker.
Rgds,
Phill

From: Hans Remeeus <hans@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, 16 April, 2011 18:25:28
Subject: [Racal6790GM] J3 AF Output pin layout

Hello!

Can someone help me with the pin layout of the J3 AF Output connector on the rear of the RA1792/6790?

I want to connect an external loudspeaker.

Thanks in advance!

-- 73, Hans Remeeus (PA1HR) http://www.remeeus.eu http://www.hansremeeus.nl
Communication is about people, the rest is technology.

1632. Operating Manual RA1792/6790

Yahoo group: Racal6790GM
Date: 2011-04-16 17:57:02 UTC
From: Hans Remeeus
Topic: 1632 Message: 1632

Hello group,

Is there a link to download the Operating Manual of the RA1792/6790?

The Maintenance Manual I allready have.

Thanks in advance!

--
73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

1633. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-16 17:55:03 UTC
From: Hans Remeeus
Topic: 1630 Message: 1633

Thanks Phil! Is this also suitable for an 8 Ohm loudspeaker?

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 16-4-2011 19:30, Phill Simmons schreef:
>
>
> Hi,
> You need pins 7 & 18 suitable for a 15 Ohm speaker.
> Rgds,
> Phill
>
> ---
> *From:* Hans Remeeus <hans@...>
> *To:* Racal6790GM@yahoogroups.com
> *Sent:* Saturday, 16 April, 2011 18:25:28
> *Subject:* [Racal6790GM] J3 AF Output pin layout
>
>
> Hello!
>
> Can someone help me with the pin layout of the J3 AF Output connector
> on the rear of the RA1792/6790?
>
> I want to connect an external loudspeaker.
>
> Thanks in advance!
>
>
> --
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
> http://www.hansremeeus.nl
> Communication is about people, the rest is technology.
>
>
>
>

1634. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-16 18:59:46 UTC
From: Phill Simmons
Topic: 1630 Message: 1634

Hi Hans,

Yes I have been using an 8 Ohm speaker without any problems.

Rgds,
Phill

From: Hans Remeeus <hans@remeeus.eu>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, 16 April, 2011 18:55:03
Subject: Re: [Racal6790GM] J3 AF Output pin layout

Thanks Phil! Is this also suitable for an 8 Ohm loudspeaker?

73, Hans Remeeus (PA1HR) http://www.remeeus.eu http://www.hansremeeus.nl
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Op 16-4-2011 19:30, Phill Simmons schreef:
Hi,
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>You need pins 7 & 18 suitable for a 15 Ohm speaker.
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From: Hans Remeeus <hans@remeeus.eu>
>To: Racal6790GM@yahoogroups.com
>Sent: Saturday, 16 April, 2011 18:25:28
>Subject: [Racal6790GM] J3 AF Output pin layout
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>Hello!
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>Can someone help me with the pin layout of the J3 AF Output connector on the
>rear of the RA1792/6790?
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>I want to connect an external loudspeaker.
>
>Thanks in advance!
>
>

>
>-- 73, Hans Remeeus (PA1HR) http://www.remeeus.eu http://www.hansremeeus.nl
>Communication is about people, the rest is technology.
>

1635. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-16 19:46:46 UTC
From: casy_ch@tbwil.ch
Topic: 1630 Message: 1635

Hi Hans

I wonder how you will find the comparison with a NRD-545 or your FT-5000?

Personnally I have amongst others also a RA-6793, 2 x RA-1792 and a RA-3702 and an Eddystone 6200. Good receivers for their age but limited in their handling performance. Having a 10 ouputs Telefunken wideband amplifier and a 10 outputs Rhode & Schwarz wide band amplifier, it is easy and fast to compare the reception amongst my 12 or 15 RXs.

I like your coaxial patching panel. That's music!!! You are lucky with your aerials.

73 de Jean-Claude, HE9EZX

----- Original Message -----
From: Hans Remeeus
To: Racal6790GM@yahoogroups.com
Sent: Saturday, April 16, 2011 7:55 PM
Subject: Re: [Racal6790GM] J3 AF Output pin layout

Thanks Phil! Is this also suitable for an 8 Ohm loudspeaker?

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 16-4-2011 19:30, Phill Simmons schreef:
Hi,

You need pins 7 & 18 suitable for a 15 Ohm speaker.
Rgds,
Phill

From: Hans Remeeus <hans@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, 16 April, 2011 18:25:28
Subject: [Racal6790GM] J3 AF Output pin layout

Hello!

Can someone help me with the pin layout of the J3 AF Output connector on the rear of the RA1792/6790?

I want to connect an external loudspeaker.

Thanks in advance!

--
73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

1636. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-16 20:22:45 UTC
From: Hans Remeeus
Topic: 1630 Message: 1636

Thanks Phil! I will connect the speaker tomorrow.

Yesterday I bought a RA1792. It is in very good shape and works well.
Although I have to replace both the displays and the backup battery.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 16-4-2011 20:59, Phill Simmons schreef:
>
>
> Hi Hans,
> Yes I have been using an 8 Ohm speaker without any problems.
> Rgds,
> Phill
>
> ---
> *From:* Hans Remeeus <hans@...>
> *To:* Racal6790GM@yahoogroups.com
> *Sent:* Saturday, 16 April, 2011 18:55:03
> *Subject:* Re: [Racal6790GM] J3 AF Output pin layout
>
>
> Thanks Phil! Is this also suitable for an 8 Ohm loudspeaker?
>
>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
> http://www.hansremeeus.nl
> Communication is about people, the rest is technology.
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>
> Op 16-4-2011 19:30, Phill Simmons schreef:
>> Hi,
>> You need pins 7 & 18 suitable for a 15 Ohm speaker.
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>> Phill
>>
>> ---
>> *From:* Hans Remeeus <hans@...>
>> *To:* Racal6790GM@yahoogroups.com
>> *Sent:* Saturday, 16 April, 2011 18:25:28

>> *Subject:* [Racal6790GM] J3 AF Output pin layout
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>> Hello!
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>> Can someone help me with the pin layout of the J3 AF Output connector
>> on the rear of the RA1792/6790?
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>> I want to connect an external loudspeaker.
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>> Thanks in advance!
>>
>>
>> --
>> 73,
>> Hans Remeeus (PA1HR)
>> http://www.remeeus.eu
>> http://www.hansremeeus.nl
>> Communication is about people, the rest is technology.
>>
>
>
>

1637. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-16 20:31:45 UTC
From: Hans Remeeus
Topic: 1630 Message: 1637

Hello Jean-Claude,

The FTdx5000d's receiver will be much better; that's for sure. E.g. its roofing filters are of excellent quality!

From 1971 till 1989 I worked at the maritime station Scheveningen Radio PCH. We had several of those RA1792 and this one was a backup receiver on the TOR (Telex Over Radio). I will use the RA1792 as a general purpose receiver and as backup. I am aware of the limitations, e.g. no Noise Blanker... Never mind. I like it's history at PCH.

My antennes work very good; thanks. I enjoy them every day and very much.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 16-4-2011 21:46, casy_ch@... schreef:
>
>
> Hi Hans
> I wonder how you will find the comparison with a NRD-545 or your FT-5000?
> Personnally I have amongst others also a RA-6793, 2 x RA-1792 and a
> RA-3702 and an Eddystone 6200. Good receivers for their age but
> limited in their handling performance. Having a 10 ouputs Telefunken
> wideband amplifier and a 10 outputs Rhode & Schwarz wide band
> amplifier, it is easy and fast to compare the reception amongst my 12
> or 15 RXs.
> I like your coaxial patching panel. That's music!!! You are lucky with
> your aerials.
> 73 de Jean-Claude, HE9EZX
>

1638. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-17 12:27:32 UTC
From: Hans Remeeus
Topic: 1630 Message: 1638

Hello Phill,

It works, but it are a little bit different pins (I found parts of the
operating manual on the internet):

18 Loudspeaker Output
6 Loudspeaker Output Ground

Pin 7 is the Internal +12 Volt Supply Ground

Perhaps pin 6 and 7 are equal (together with 5, 8 and 9); all Ground.

I connected two loudspeakers; sounds good!

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 16-4-2011 20:59, Phill Simmons schreef:
>
>
> Hi Hans,
> Yes I have been using an 8 Ohm speaker without any problems.
> Rgds,
> Phill
>
> ---
> *From:* Hans Remeeus <hans@...>
> *To:* Racal6790GM@yahoogroups.com
> *Sent:* Saturday, 16 April, 2011 18:55:03
> *Subject:* Re: [Racal6790GM] J3 AF Output pin layout
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>
> Thanks Phil! Is this also suitable for an 8 Ohm loudspeaker?
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>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
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> Communication is about people, the rest is technology.
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>
> Op 16-4-2011 19:30, Phill Simmons schreef:
>> Hi,

>> You need pins 7 & 18 suitable for a 15 Ohm speaker.
>> Rgds,
>> Phill
>>
>> ---
>> *From:* Hans Remeeus <hans@...>
>> *To:* Racal6790GM@yahoogroups.com
>> *Sent:* Saturday, 16 April, 2011 18:25:28
>> *Subject:* [Racal6790GM] J3 AF Output pin layout
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>> Hello!
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>> on the rear of the RA1792/6790?
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>>
>> Thanks in advance!
>>
>>
>> --
>> 73,
>> Hans Remeeus (PA1HR)
>> http://www.remeeus.eu
>> http://www.hansremeeus.nl
>> Communication is about people, the rest is technology.
>>
>
>
>

1639. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-17 14:33:09 UTC
From: Phill Simmons
Topic: 1630 Message: 1639

Hello Hans,

Yes that's it, sounds like you have it fixed.
Best regards,
73s
de Phill GW0VYF

From: Hans Remeeus <hans@...>
To: Racal6790GM@yahoogroups.com
Sent: Sunday, 17 April, 2011 13:27:32
Subject: Re: [Racal6790GM] J3 AF Output pin layout

Hello Phill,

It works, but it are a little bit different pins (I found parts of the operating manual on the internet):

18 Loudspeaker Output
6 Loudspeaker Output Ground

Pin 7 is the Internal +12 Volt Supply Ground

Perhaps pin 6 and 7 are equal (together with 5, 8 and 9); all Ground.

I connected two loudspeakers; sounds good!

73, Hans Remeeus (PA1HR) http://www.remeeus.eu http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 16-4-2011 20:59, Phill Simmons schreef:
Hi Hans,
>
>Yes I have been using an 8 Ohm speaker without any problems.
>
>Rgds,
>Phill
>
>
>
>

From: Hans Remeeus <hans@...>
>To: Racal6790GM@yahoogroups.com
>Sent: Saturday, 16 April, 2011 18:55:03
>Subject: Re: [Racal6790GM] J3 AF Output pin layout
>

>
>
>Thanks Phil! Is this also suitable for an 8 Ohm loudspeaker?
>
>
>
>73, Hans Remeeus (PA1HR) http://www.remeeus.eu http://www.hansremeeus.nl
>Communication is about people, the rest is technology.
>
>Op 16-4-2011 19:30, Phill Simmons schreef:
>Hi,
>>
>>You need pins 7 & 18 suitable for a 15 Ohm speaker.
>>Rgds,
>>Phill
>>
>>
>>
>>

From: Hans Remeeus <hans@...>
>>To: Racal6790GM@yahoogroups.com
>>Sent: Saturday, 16 April, 2011 18:25:28
>>Subject: [Racal6790GM] J3 AF Output pin layout
>>
>>
>>
>>Hello!
>>
>>Can someone help me with the pin layout of the J3 AF Output connector on the
>>rear of the RA1792/6790?
>>
>>I want to connect an external loudspeaker.
>>
>>Thanks in advance!
>>
>>
>>
>>-- 73, Hans Remeeus (PA1HR) http://www.remeeus.eu http://www.hansremeeus.nl
>>Communication is about people, the rest is technology.
>>

1640. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-17 15:11:20 UTC
From: Hans Remeeus
Topic: 1630 Message: 1640

Hello Phill,

Yes, it works well. Thanks.

And I found the whole Operating Manual on the internet.

Another question about the receiver: is it possible to install a Noise Blanker or use an external one?

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 17-4-2011 16:33, Phill Simmons schreef:
>
>
> Hello Hans,
> Yes that's it, sounds like you have it fixed.
> Best regards,
> 73s
> de Phill GW0VYF
>
> ---
> *From:* Hans Remeeus <hans@...>
> *To:* Racal6790GM@yahoogroups.com
> *Sent:* Sunday, 17 April, 2011 13:27:32
> *Subject:* Re: [Racal6790GM] J3 AF Output pin layout
>
>
> Hello Phill,
>
> It works, but it are a little bit different pins (I found parts of the
> operating manual on the internet):
>
> 18 Loudspeaker Output
> 6 Loudspeaker Output Ground
>
> Pin 7 is the Internal +12 Volt Supply Ground
>
> Perhaps pin 6 and 7 are equal (together with 5, 8 and 9); all Ground.
>
> I connected two loudspeakers; sounds good!
>
>

> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
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> Communication is about people, the rest is technology.
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> Op 16-4-2011 20:59, Phill Simmons schreef:
>> Hi Hans,
>> Yes I have been using an 8 Ohm speaker without any problems.
>> Rgds,
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>> *From:* Hans Remeeus <hans@...>
>> *To:* Racal6790GM@yahoogroups.com
>> *Sent:* Saturday, 16 April, 2011 18:55:03
>> *Subject:* Re: [Racal6790GM] J3 AF Output pin layout
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>> Thanks Phil! Is this also suitable for an 8 Ohm loudspeaker?
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>> 73,
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>> Op 16-4-2011 19:30, Phill Simmons schreef:
>>> Hi,
>>> You need pins 7 & 18 suitable for a 15 Ohm speaker.
>>> Rgds,
>>> Phill
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>>> *From:* Hans Remeeus <hans@...>
>>> *To:* Racal6790GM@yahoogroups.com
>>> *Sent:* Saturday, 16 April, 2011 18:25:28
>>> *Subject:* [Racal6790GM] J3 AF Output pin layout
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>>> Hello!
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>>> Can someone help me with the pin layout of the J3 AF Output
>>> connector on the rear of the RA1792/6790?
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>>> I want to connect an external loudspeaker.
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>>> Thanks in advance!
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>>> Communication is about people, the rest is technology.
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>
>

1641. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-17 15:36:13 UTC
From: casy_ch@tbwil.ch
Topic: 1630 Message: 1641

Hello Hans

It is not directly a noise blanker, but I used a Datong FL-2 and after a Datong FL-3 which I got from Ebay. I was amazed what I could do with the notch and peak audio filters. Depending upon the receivers I put them in front of the speakers or take it from its line output. All my loudspeakers have a line trafo in them. The automatic notch filter of the FL-3 brings very much, so I got rid of the FL-2.

Unfortunately Mr. Datong never gave the schematic out, even when he stopped the business.

73
Jean-Claude, HE9EZX

----- Original Message -----
From: Hans Remeeus
To: Racal6790GM@yahoogroups.com
Sent: Sunday, April 17, 2011 5:11 PM
Subject: Re: [Racal6790GM] J3 AF Output pin layout

Hello Phill,

Yes, it works well. Thanks.

And I found the whole Operating Manual on the internet.

Another question about the receiver: is it possible to install a Noise Blanker or use an external one?

73,
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Op 17-4-2011 16:33, Phill Simmons schreef:
Hello Hans,

Yes that's it, sounds like you have it fixed.
Best regards,
73s
de Phill GW0VYF

From: Hans Remeeus <hans@...>
To: Racal6790GM@yahoogroups.com
Sent: Sunday, 17 April, 2011 13:27:32
Subject: Re: [Racal6790GM] J3 AF Output pin layout

Hello Phill,

It works, but it are a little bit different pins (I found parts of the operating manual on the internet):

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Op 16-4-2011 20:59, Phill Simmons schreef:
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Rgds,
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From: Hans Remeeus <hans@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, 16 April, 2011 18:55:03
Subject: Re: [Racal6790GM] J3 AF Output pin layout

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http://www.remeeus.eu
http://www.hansremeeus.nl
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Op 16-4-2011 19:30, Phill Simmons schreef:
Hi,

You need pins 7 & 18 suitable for a 15 Ohm speaker.
Rgds,
Phill

From: Hans Remeeus <hans@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, 16 April, 2011 18:25:28
Subject: [Racal6790GM] J3 AF Output pin layout

Hello!

Can someone help me with the pin layout of the J3 AF Output connector on the rear of the RA1792/6790?

I want to connect an external loudspeaker.

Thanks in advance!

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73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
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1642. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-17 16:37:50 UTC
From: Hans Remeeus
Topic: 1630 Message: 1642

Hello Jean-Claude,

Many thanks for the interesting information! Looks good and 2nd hand
it's not expensive.

Does de FL-3 surpress the ticks from electric fence wire?

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 17-4-2011 17:36, casy_ch@... schreef:
>
>
> Hello Hans
> It is not directly a noise blanker, but I used a Datong FL-2 and after
> a Datong FL-3 which I got from Ebay. I was amazed what I could do with
> the notch and peak audio filters. Depending upon the receivers I put
> them in front of the speakers or take it from its line output. All my
> loudspeakers have a line trafo in them. The automatic notch filter of
> the FL-3 brings very much, so I got rid of the FL-2.
> Unfortunately Mr. Datong never gave the schematic out, even when he
> stopped the business.
> 73
> Jean-Claude, HE9EZX
>
> ----- Original Message -----
> *From:* Hans Remeeus <mailto:hans@...>
> *To:* Racal6790GM@yahoogroups.com
> <mailto:Racal6790GM@yahoogroups.com>
> *Sent:* Sunday, April 17, 2011 5:11 PM
> *Subject:* Re: [Racal6790GM] J3 AF Output pin layout
>
>
> Hello Phill,
>
> Yes, it works well. Thanks.
>
> And I found the whole Operating Manual on the internet.
>
> Another question about the receiver: is it possible to install a
> Noise Blanker or use an external one?
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>

>
> 73,
> Hans Remeeus (PA1HR)
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> Communication is about people, the rest is technology.
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>
>
> Op 17-4-2011 16:33, Phill Simmons schreef:
>> Hello Hans,
>> Yes that's it, sounds like you have it fixed.
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>> de Phill GW0VYF
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>> *From:* Hans Remeeus <hans@...>
>> *To:* Racal6790GM@yahoogroups.com
>> *Sent:* Sunday, 17 April, 2011 13:27:32
>> *Subject:* Re: [Racal6790GM] J3 AF Output pin layout
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>>
>> Hello Phill,
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>> It works, but it are a little bit different pins (I found parts
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>> 18 Loudspeaker Output
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>> Pin 7 is the Internal +12 Volt Supply Ground
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>> Perhaps pin 6 and 7 are equal (together with 5, 8 and 9); all Ground.
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>> I connected two loudspeakers; sounds good!
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>> 73,
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>> http://www.remeeus.eu
>> http://www.hansremeeus.nl
>> Communication is about people, the rest is technology.
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>> Op 16-4-2011 20:59, Phill Simmons schreef:
>>> Hi Hans,
>>> Yes I have been using an 8 Ohm speaker without any problems.
>>> Rgds,
>>> Phill

>>>
>>> ---
>>> *From:* Hans Remeeus <hans@...>
>>> *To:* Racal6790GM@yahoogroups.com
>>> *Sent:* Saturday, 16 April, 2011 18:55:03
>>> *Subject:* Re: [Racal6790GM] J3 AF Output pin layout
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>>> Thanks Phil! Is this also suitable for an 8 Ohm loudspeaker?
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>>> 73,
>>> Hans Remeeus (PA1HR)
>>> http://www.remeeus.eu
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>>> Communication is about people, the rest is technology.
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>>>
>>> Op 16-4-2011 19:30, Phill Simmons schreef:
>>>> Hi,
>>>> You need pins 7 & 18 suitable for a 15 Ohm speaker.
>>>> Rgds,
>>>> Phill
>>>>
>>>> ---
>>>> *From:* Hans Remeeus <hans@...>
>>>> *To:* Racal6790GM@yahoogroups.com
>>>> *Sent:* Saturday, 16 April, 2011 18:25:28
>>>> *Subject:* [Racal6790GM] J3 AF Output pin layout
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>>>>
>>>> Hello!
>>>>
>>>> Can someone help me with the pin layout of the J3 AF Output
>>>> connector on the rear of the RA1792/6790?
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>>>> I want to connect an external loudspeaker.
>>>>
>>>> Thanks in advance!
>>>>
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>>>> 73,
>>>> Hans Remeeus (PA1HR)
>>>> http://www.remeeus.eu
>>>> http://www.hansremeeus.nl
>>>> Communication is about people, the rest is technology.
>>>>
>
>

>
>

1643. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-17 19:37:34 UTC
From: gewingerd@netzero.com
Topic: 1630 Message: 1643
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1644. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-17 21:52:47 UTC
From: casy_ch@tbwil.ch
Topic: 1630 Message: 1644

Dr Hans

Hi10x - I thought I was the only one with that desease! I leave in a village in the countryside surrounded by farmers land + farms and hobby sheep's owners.

My answer to your question is ambiguous, in other words yes and no.

It depends upon the make of the electric fence generator. The newer ones have probably another electronic and should be by norm exempt from disturbance which I found is not always the case. These are more difficult to notch down, but at least the filter can be set to a value where the disturbance is not so heavily mixing in our hearing, at least in mine-hi. If you mean reception of cw, than it is easier to set the filter than SSB, resp. AM. By the way the action is also a little bit depending upon the AGC which in such cases I do not set to slow depending about the rx I choose.

Good night and 73
Jean-Claude, HE9EZX

----- Original Message -----
From: Hans Remeeus
To: Racal6790GM@yahoogroups.com
Sent: Sunday, April 17, 2011 6:37 PM
Subject: Re: [Racal6790GM] J3 AF Output pin layout

Hello Jean-Claude,

Many thanks for the interesting information! Looks good and 2nd hand it's not expensive.

Does de FL-3 surpress the ticks from electric fence wire?

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 17-4-2011 17:36, casy_ch@... schreef:
Hello Hans

It is not directly a noise blanker, but I used a Datong FL-2 and after a Datong FL-3 which I got from Ebay. I was amazed what I could do with the notch and peak audio filters. Depending upon the receivers I put them in front of the speakers or take it from its line output. All my loudspeakers have a line trafo in them. The automatic notch filter of the FL-3 brings very much, so I got rid of the FL-2.

Unfortunately Mr. Datong never gave the schematic out, even when he stopped the business.

73
Jean-Claude, HE9EZX

----- Original Message -----
From: Hans Remeeus
To: Racal6790GM@yahoogroups.com
Sent: Sunday, April 17, 2011 5:11 PM
Subject: Re: [Racal6790GM] J3 AF Output pin layout

Hello Phill,

Yes, it works well. Thanks.

And I found the whole Operating Manual on the internet.

Another question about the receiver: is it possible to install a Noise Blanker or use an external one?

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 17-4-2011 16:33, Phill Simmons schreef:
Hello Hans,

Yes that's it, sounds like you have it fixed.
Best regards,
73s
de Phill GW0VYF

From: Hans Remeeus <hans@...>
To: Racal6790GM@yahoogroups.com
Sent: Sunday, 17 April, 2011 13:27:32
Subject: Re: [Racal6790GM] J3 AF Output pin layout

Hello Phill,

It works, but it are a little bit different pins (I found parts of the operating manual on the internet):

18 Loudspeaker Output
6 Loudspeaker Output Ground

Pin 7 is the Internal +12 Volt Supply Ground

Perhaps pin 6 and 7 are equal (together with 5, 8 and 9); all Ground.

I connected two loudspeakers; sounds good!

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu

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Communication is about people, the rest is technology.

Op 16-4-2011 20:59, Phill Simmons schreef:
Hi Hans,

Yes I have been using an 8 Ohm speaker without any problems.

Rgds,
Phill

From: Hans Remeeus <hans@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, 16 April, 2011 18:55:03
Subject: Re: [Racal6790GM] J3 AF Output pin layout

Thanks Phil! Is this also suitable for an 8 Ohm loudspeaker?

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
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Communication is about people, the rest is technology.

Op 16-4-2011 19:30, Phill Simmons schreef:
Hi,

You need pins 7 & 18 suitable for a 15 Ohm speaker.
Rgds,
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From: Hans Remeeus <hans@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, 16 April, 2011 18:25:28
Subject: [Racal6790GM] J3 AF Output pin layout

Hello!

Can someone help me with the pin layout of the J3 AF Output connector on the rear of the RA1792/6790?

I want to connect an external loudspeaker.

Thanks in advance!

--
73,
Hans Remeeus (PA1HR)
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Communication is about people, the rest is technology.

1645. Re: [Racal6790GM] J3 AF Output pin layout [1 Attachment]

Yahoo group: Racal6790GM
Date: 2011-04-18 05:52:14 UTC
From: Hans Remeeus
Topic: 1630 Message: 1645

Thanks Gary!

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 17-4-2011 21:37, gewingerd@... schreef:
> This is the info from the manual,
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: Hans Remeeus<hans@...>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] J3 AF Output pin layout
> Date: Sat, 16 Apr 2011 19:25:28 +0200
>
>
>
>
>
>

1646. Re: [Racal6790GM] J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-18 07:44:42 UTC
From: Hans Remeeus
Topic: 1630 Message: 1646

Hello Jean-Claude,

Thanks for the info!

I will try to find a well working FL-3.

And I will try to suppress the disturbance from my neighbour's fence.
Same here: hobby sheep...

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 17-4-2011 23:52, casy_ch@... schreef:
>
>
> Dr Hans
> Hi10x - I thought I was the only one with that desease! I leave in a
> village in the countryside surrounded by farmers land + farms and
> hobby sheep's owners.
> My answer to your question is ambiguous, in other words yes and no.
> It depends upon the make of the electric fence generator. The newer
> ones have probably another electronic and should be by norm exempt
> from disturbance which I found is not always the case. These are more
> difficult to notch down, but at least the filter can be set to a value
> where the disturbance is not so heavily mixing in our hearing, at
> least in mine-hi. If you mean reception of cw, than it is easier to
> set the filter than SSB, resp. AM. By the way the action is also a
> little bit depending upon the AGC which in such cases I do not set to
> slow depending about the rx I choose.
> Good night and 73
> Jean-Claude, HE9EZX
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> ----- Original Message -----
> *From:* Hans Remeeus <mailto:hans@...>
> *To:* Racal6790GM@yahoogroups.com
> <mailto:Racal6790GM@yahoogroups.com>
> *Sent:* Sunday, April 17, 2011 6:37 PM
> *Subject:* Re: [Racal6790GM] J3 AF Output pin layout
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> Hello Jean-Claude,
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> Many thanks for the interesting information! Looks good and 2nd

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> Op 17-4-2011 17:36, casy_ch@... schreef:
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>> ----- Original Message -----
>> *From:* Hans Remeeus <mailto:hans@...>
>> *To:* Racal6790GM@yahoogroups.com
>> <mailto:Racal6790GM@yahoogroups.com>
>> *Sent:* Sunday, April 17, 2011 5:11 PM
>> *Subject:* Re: [Racal6790GM] J3 AF Output pin layout
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>>> *From:* Hans Remeeus <hans@...>
>>> *To:* Racal6790GM@yahoogroups.com
>>> *Sent:* Sunday, 17 April, 2011 13:27:32
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>>> Hello Phill,
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>>>> Hi Hans,
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>>>>> --
>>>>> 73,
>>>>> Hans Remeeus (PA1HR)
>>>>> http://www.remeeus.eu
>>>>> http://www.hansremeeus.nl
>>>>> Communication is about people, the rest is technology.
>>>>>
>>
>
>
>
>

1647. Re: J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-17 16:08:57 UTC
From: graham787
Topic: 1630 Message: 1647

Noise Blanker

Other than using some DSP in the audio line , rf limiting would be need to be infront of the roofing filter to do any good .. a big job , may be with the rf-amp you rig something like the colins system with separate 'noise' antenna and fire blanking pulses at the amp , DSP via the p/c or blanker in the speaker would be the most simple

I get good results using a A/D (tnx Larry) on the IF out and using the PC as the back end - ok not quite the racal experiance , but in unplugs and the set is 100% standard ... after hacking a few valve rx's in the past , only to learn later in life that standard = big $$ resale hi

G..

--- In Racal6790GM@yahoogroups.com, Hans Remeeus <hans@...> wrote:
>
>
> Hello Phill,
>
> Yes, it works well. Thanks.
>
> And I found the whole Operating Manual on the internet.
>
> Another question about the receiver: is it possible to install a Noise
> Blanker or use an external one?
>
>
>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
> http://www.hansremeeus.nl
> Communication is about people, the rest is technology.
>
>
>
> Op 17-4-2011 16:33, Phill Simmons schreef:
> >
> >
> > Hello Hans,
> > Yes that's it, sounds like you have it fixed.
> > Best regards,
> > 73s
> > de Phill GW0VYF
> >
> > --

> > *From:* Hans Remeeus <hans@...>
> > *To:* Racal6790GM@yahoogroups.com
> > *Sent:* Sunday, 17 April, 2011 13:27:32
> > *Subject:* Re: [Racal6790GM] J3 AF Output pin layout
> >
> >
> > Hello Phill,
> >
> > It works, but it are a little bit different pins (I found parts of the
> > operating manual on the internet):
> >
> > 18 Loudspeaker Output
> > 6 Loudspeaker Output Ground
> >
> > Pin 7 is the Internal +12 Volt Supply Ground
> >
> > Perhaps pin 6 and 7 are equal (together with 5, 8 and 9); all Ground.
> >
> > I connected two loudspeakers; sounds good!
> >
> >
> > 73,
> > Hans Remeeus (PA1HR)
> > http://www.remeeus.eu
> > http://www.hansremeeus.nl
> > Communication is about people, the rest is technology.
> >
> >
> > Op 16-4-2011 20:59, Phill Simmons schreef:
> >> Hi Hans,
> >> Yes I have been using an 8 Ohm speaker without any problems.
> >> Rgds,
> >> Phill
> >>
> >> ---
> >> *From:* Hans Remeeus <hans@...>
> >> *To:* Racal6790GM@yahoogroups.com
> >> *Sent:* Saturday, 16 April, 2011 18:55:03
> >> *Subject:* Re: [Racal6790GM] J3 AF Output pin layout
> >>
> >>
> >> Thanks Phil! Is this also suitable for an 8 Ohm loudspeaker?
> >>
> >>
> >> 73,
> >> Hans Remeeus (PA1HR)
> >> http://www.remeeus.eu
> >> http://www.hansremeeus.nl
> >> Communication is about people, the rest is technology.
> >>

> >>
> >> Op 16-4-2011 19:30, Phill Simmons schreef:
> >>> Hi,
> >>> You need pins 7 & 18 suitable for a 15 Ohm speaker.
> >>> Rgds,
> >>> Phill
> >>>
> >>> ---
> >>> *From:* Hans Remeeus <hans@...>
> >>> *To:* Racal6790GM@yahoogroups.com
> >>> *Sent:* Saturday, 16 April, 2011 18:25:28
> >>> *Subject:* [Racal6790GM] J3 AF Output pin layout
> >>>
> >>>
> >>> Hello!
> >>>
> >>> Can someone help me with the pin layout of the J3 AF Output
> >>> connector on the rear of the RA1792/6790?
> >>>
> >>> I want to connect an external loudspeaker.
> >>>
> >>> Thanks in advance!
> >>>
> >>>
> >>> --
> >>> 73,
> >>> Hans Remeeus (PA1HR)
> >>> http://www.remeeus.eu
> >>> http://www.hansremeeus.nl
> >>> Communication is about people, the rest is technology.
> >>>
> > >
> > >
> > >
>

1648. Re: [Racal6790GM] Re: J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-19 07:01:40 UTC
From: Hans Remeeus
Topic: 1630 Message: 1648

Hello Graham,

Many thanks for the interesting information!

You made some for good suggestions. I will try to find out which one is
the best solution.

My RX antenna is the RF Systems DX One Pro MkII;
http://www.dxing.info/equipment/dx1pro.dx
Perhaps there is something possible in this circuit with pulse blanking.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 17-4-2011 18:08, graham787 schreef:
> Noise Blanker
>
> Other than using some DSP in the audio line , rf limiting would be need to be infront of the roofing filter to do any good .. a big job , may be with the rf-amp you rig something like the colins system with separate 'noise' antenna and fire blanking pulses at the amp , DSP via the p/c or blanker in the speaker would be the most simple
>
> I get good results using a A/D (tnx Larry) on the IF out and using the PC as the back end - ok not quite the racal experiance , but in unplugs and the set is 100% standard ... after hacking a few valve rx's in the past , only to learn later in life that standard = big $$ resale hi
>
> G..
>

1649. Simplest Muting Circuit

Yahoo group: Racal6790GM
Date: 2011-04-19 21:54:49 UTC
From: zf2scka9p
Topic: 1649 Message: 1649

Greetings.

Can anyone vouch (i.e. you've had good luck with it, or at least know a friend of a friend of a friend that claims to have :)for a simple, easy muting modification for the 6790?

Thanks, very much.

Scott

(currently 4 running, 1 recalcitrant)

1650. Re: J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-18 12:39:02 UTC
From: toptyp19
Topic: 1630 Message: 1650

Dallas Lankford had a fine noise blanker that he developed for the 6790. Google for it. It's available from many sources in pdf format.

Joe

1651. Re: J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-19 21:03:18 UTC
From: graham787
Topic: 1630 Message: 1651

Ok Hans

Well , noise blanking is one of those emotive things....from memory other than a simple clipping cct on the RA17 , I don't think Racal fitted a blanker to any of the solid-state RX's ?

Once a pulse has passed the two filters , it not going to be simple to remove it , some sort of pin diode attenuator would have the bandwith , but personally I would not be tempted to dive into the set

using a 'soft-rock' radio looking at the 455KHz IF o/p with the set in wide band 20Khz , which only then uses the roothing filter, and a software back end , gives good results , if you keep the gain down , then its quite impressive , but you are left with no more than a tunable down converter

G..

--- In Racal6790GM@yahoogroups.com, Hans Remeeus <hans@...> wrote:
>
>
> Hello Graham,
>
> Many thanks for the interesting information!
>
> You made some for good suggestions. I will try to find out which one is
> the best solution.
>
> My RX antenna is the RF Systems DX One Pro MkII;
> http://www.dxing.info/equipment/dx1pro.dx
> Perhaps there is something possible in this circuit with pulse blanking.
>
>
>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
> http://www.hansremeeus.nl
> Communication is about people, the rest is technology.
>
>
>
> Op 17-4-2011 18:08, graham787 schreef:
> > Noise Blanker
> >
> > Other than using some DSP in the audio line , rf limiting would be need to be infront of the roofing filter to do any good .. a big job , may be with the rf-amp you rig

something like the colins system with separate 'noise' antenna and fire blanking pulses at the amp , DSP via the p/c or blanker in the speaker would be the most simple
> >
> > I get good results using a A/D (tnx Larry) on the IF out and using the PC as the back end - ok not quite the racal experiance , but in unplugs and the set is 100% standard ... after hacking a few valve rx's in the past , only to learn later in life that standard = big $$ resale hi
> >
> > G..
> >
>

1652. Re: [Racal6790GM] Re: J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-20 10:06:12 UTC
From: Hans Remeeus
Topic: 1630 Message: 1652

Hello Graham,

It won't be very easy to implement such a noise blanker, but I can try it without big changes inside the RX.

The soft-rock looking radio is not an option. I want to use the whole Racal as it is.

For me this Racal has special memories. Between 1971 and 1989 I professionally worked at a coastradiostation and in those years we used such receivers. Have a look at http://www.remeeus.eu/scheveningenradio/foto-impressie.html (sorry for the Dutch language, but Google may translate it for you).
This is the one:
http://www.remeeus.eu/images/stories/scheveningenradio/Hans%20Hoevens.jpg

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 19-4-2011 23:03, graham787 schreef:
> Ok Hans
>
> Well , noise blanking is one of those emotive things....from memory other than a simple clipping cct on the RA17 , I don't think Racal fitted a blanker to any of the solid-state RX's ?
>
> Once a pulse has passed the two filters , it not going to be simple to remove it , some sort of pin diode attenuator would have the bandwith , but personally I would not be tempted to dive into the set
>
> using a 'soft-rock' radio looking at the 455KHz IF o/p with the set in wide band 20Khz , which only then uses the roothing filter, and a software back end , gives good results , if you keep the gain down , then its quite impressive , but you are left with no more than a tunable down converter
>
> G..
>

1653. Re: J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-21 10:11:47 UTC
From: graham787
Topic: 1630 Message: 1653

Hans- this may be a good compromise .G..

http://www.premium-rx.org/ref/ra6790noiseblankermod2.pdf

--- In Racal6790GM@yahoogroups.com, Hans Remeeus <hans@...> wrote:
>
>
> Hello Graham,
>
> It won't be very easy to implement such a noise blanker, but I can try
> it without big changes inside the RX.
>
> The soft-rock looking radio is not an option. I want to use the whole
> Racal as it is.
>
> For me this Racal has special memories. Between 1971 and 1989 I
> professionally worked at a coastradiostation and in those years we used
> such receivers. Have a look at
> http://www.remeeus.eu/scheveningenradio/foto-impressie.html (sorry for
> the Dutch language, but Google may translate it for you).
> This is the one:
> http://www.remeeus.eu/images/stories/scheveningenradio/Hans%20Hoevens.jpg
>
>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
> http://www.hansremeeus.nl
> Communication is about people, the rest is technology.
>
>
>
> Op 19-4-2011 23:03, graham787 schreef:
> > Ok Hans
> >
> > Well , noise blanking is one of those emotive things....from memory other than a simple clipping cct on the RA17 , I don't think Racal fitted a blanker to any of the solid-state RX's ?
> >
> > Once a pulse has passed the two filters , it not going to be simple to remove it , some sort of pin diode attenuator would have the bandwith , but personally I would not be tempted to dive into the set
> >
> > using a 'soft-rock' radio looking at the 455KHz IF o/p with the set in wide band 20Khz , which only then uses the roothing filter, and a software back end , gives good results ,

if you keep the gain down , then its quite impressive , but you are left with no more than a tunable down converter
> >
> > G..
> >
>

1654. Re: [Racal6790GM] Re: J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-20 11:51:27 UTC
From: G ..
Topic: 1630 Message: 1654

Ok , yes can see that , well I was working at the annex to western road , when that model was in development , production of the 1771/1772 had just taken off , still full of bugs of course and components the radio and TV trade had stopped using because of unreliability .... I brought a 6790 a while back and was lucky to pick up a battery damaged 1778 .. not quite sure what message that tells .. the two rx's work well , but I tend to use the 1778 for voice and the 6790 for data , the afc carrier lock on the 1778 solves the vintage AM reception problems , just follows them around hi

G..

From: Hans Remeeus
Sent: Wednesday, April 20, 2011 11:06 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Re: J3 AF Output pin layout

Hello Graham,

It won't be very easy to implement such a noise blanker, but I can try it without big changes inside the RX.

The soft-rock looking radio is not an option. I want to use the whole Racal as it is.

For me this Racal has special memories. Between 1971 and 1989 I professionally worked at a coastradiostation and in those years we used such receivers. Have a look at http://www.remeeus.eu/scheveningenradio/foto-impressie.html (sorry for the Dutch language, but Google may translate it for you).
This is the one: http://www.remeeus.eu/images/stories/scheveningenradio/Hans%20Hoevens.jpg

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 19-4-2011 23:03, graham787 schreef:
Ok Hans

Well , noise blanking is one of those emotive things....from memory other than a simple clipping cct on the RA17 , I don't think Racal fitted a blanker to any of the solid-state RX's ?

Once a pulse has passed the two filters , it not going to be simple to remove it , some sort of pin diode attenuator would have the bandwith , but personally I would not be tempted to dive into the set

using a 'soft-rock' radio looking at the 455KHz IF o/p with the set in wide band 20Khz , which only then uses the roothing filter, and a software back end , gives good results , if you keep the gain down , then its quite impressive , but you are left with no more than a

tunable down converter

G..

1655. New file uploaded: RA6790GM noise blanker circuit

Yahoo group: Racal6790GM
Date: 2011-04-20 12:38:42 UTC
From: toptyp19
Topic: 1655 Message: 1655

I have just uploaded a pdf of Dallas Lankford's noise blanker circuit for the 6790GM. It is in the files section. The ULN3846 is no longer available from Allegro but the 3845 may be substituted with appropriate pin-out changes.

Joe

1656. Re: J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-20 12:31:20 UTC
From: toptyp19
Topic: 1630 Message: 1656

Hans-
I have just uploaded the pdf of Lankford's noise blanker. It is
in the files section. The ULN 3846 is no longer available from
Allegro but the 3845 can be used by changing the pin-outs.
Take a look at it. Straight forward circuit.
GL, Joe

--- In Racal6790GM@yahoogroups.com, Hans Remeeus <hans@...> wrote:
>
>
> Hello Graham,
>
> It won't be very easy to implement such a noise blanker, but I can try
> it without big changes inside the RX.
>
> The soft-rock looking radio is not an option. I want to use the whole
> Racal as it is.
>
> For me this Racal has special memories. Between 1971 and 1989 I
> professionally worked at a coastradiostation and in those years we used
> such receivers. Have a look at
> http://www.remeeus.eu/scheveningenradio/foto-impressie.html (sorry for
> the Dutch language, but Google may translate it for you).
> This is the one:
> http://www.remeeus.eu/images/stories/scheveningenradio/Hans%20Hoevens.jpg
>
>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
> http://www.hansremeeus.nl
> Communication is about people, the rest is technology.
>
>

1657. Re: [Racal6790GM] Re: J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-21 16:40:40 UTC
From: Hans Remeeus
Topic: 1630 Message: 1657

Hello Joe,

Many thanks for the file! I will take a look at it and try to implement
it. We have a lot of fence wire around here.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 20-4-2011 14:31, toptyp19 schreef:
> Hans-
> I have just uploaded the pdf of Lankford's noise blanker. It is
> in the files section. The ULN 3846 is no longer available from
> Allegro but the 3845 can be used by changing the pin-outs.
> Take a look at it. Straight forward circuit.
> GL, Joe
>
>
>
>
> --- In Racal6790GM@yahoogroups.com, Hans Remeeus<hans@...> wrote:
>>
>> Hello Graham,
>>
>> It won't be very easy to implement such a noise blanker, but I can try
>> it without big changes inside the RX.
>>
>> The soft-rock looking radio is not an option. I want to use the whole
>> Racal as it is.
>>
>> For me this Racal has special memories. Between 1971 and 1989 I
>> professionally worked at a coastradiostation and in those years we used
>> such receivers. Have a look at
>> http://www.remeeus.eu/scheveningenradio/foto-impressie.html (sorry for
>> the Dutch language, but Google may translate it for you).
>> This is the one:
>> http://www.remeeus.eu/images/stories/scheveningenradio/Hans%20Hoevens.jpg
>>
>>
>> 73,
>> Hans Remeeus (PA1HR)
>> http://www.remeeus.eu
>> http://www.hansremeeus.nl
>> Communication is about people, the rest is technology.

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> Yahoo! Groups Links
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1658. Re: [Racal6790GM] Re: J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-22 13:30:13 UTC
From: Hans Remeeus
Topic: 1630 Message: 1658

Hello Graham,

Thanks very much! This could be a very good compromise indeed!

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 21-4-2011 12:11, graham787 schreef:
> Hans- this may be a good compromise .G..
>
> http://www.premium-rx.org/ref/ra6790noiseblankermod2.pdf
>
> --- In Racal6790GM@yahoogroups.com, Hans Remeeus<hans@...> wrote:
>>
>> Hello Graham,
>>
>> It won't be very easy to implement such a noise blanker, but I can try
>> it without big changes inside the RX.
>>
>> The soft-rock looking radio is not an option. I want to use the whole
>> Racal as it is.
>>
>> For me this Racal has special memories. Between 1971 and 1989 I
>> professionally worked at a coastradiostation and in those years we used
>> such receivers. Have a look at
>> http://www.remeeus.eu/scheveningenradio/foto-impressie.html (sorry for
>> the Dutch language, but Google may translate it for you).
>> This is the one:
>> http://www.remeeus.eu/images/stories/scheveningenradio/Hans%20Hoevens.jpg
>>
>>
>> 73,
>> Hans Remeeus (PA1HR)
>> http://www.remeeus.eu
>> http://www.hansremeeus.nl
>> Communication is about people, the rest is technology.
>>
>>
>>
>> Op 19-4-2011 23:03, graham787 schreef:
>>> Ok Hans
>>>
>>> Well , noise blanking is one of those emotive things....from memory other than a simple

clipping cct on the RA17 , I don't think Racal fitted a blanker to any of the solid-state RX's ?
>>>
>>> Once a pulse has passed the two filters , it not going to be simple to remove it , some sort of pin diode attenuator would have the bandwith , but personally I would not be tempted to dive into the set
>>>
>>> using a 'soft-rock' radio looking at the 455KHz IF o/p with the set in wide band 20Khz , which only then uses the roothing filter, and a software back end , gives good results , if you keep the gain down , then its quite impressive , but you are left with no more than a tunable down converter
>>>
>>> G..
>>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

1659. Re: J3 AF Output pin layout

Yahoo group: Racal6790GM
Date: 2011-04-22 13:41:31 UTC
From: graham787
Topic: 1630 Message: 1659

The device was mentioned in a few post's some time ago. assume it places after the second mixer before the IF filters , not sure how it compares to a 'good' dsp system , but if improves things , and can be removed later , that a plus point hi

G..

--- In Racal6790GM@yahoogroups.com, Hans Remeeus <hans@...> wrote:
>
>
> Hello Graham,
>
> Thanks very much! This could be a very good compromise indeed!
>
>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
> http://www.hansremeeus.nl
> Communication is about people, the rest is technology.
>
>
>
> Op 21-4-2011 12:11, graham787 schreef:
> > Hans- this may be a good compromise .G..
> >
> > http://www.premium-rx.org/ref/ra6790noiseblankermod2.pdf
> >
> > --- In Racal6790GM@yahoogroups.com, Hans Remeeus<hans@> wrote:
> >>
> >> Hello Graham,
> >>
> >> It won't be very easy to implement such a noise blanker, but I can try
> >> it without big changes inside the RX.
> >>
> >> The soft-rock looking radio is not an option. I want to use the whole
> >> Racal as it is.
> >>
> >> For me this Racal has special memories. Between 1971 and 1989 I
> >> professionally worked at a coastradiostation and in those years we used
> >> such receivers. Have a look at
> >> http://www.remeeus.eu/scheveningenradio/foto-impressie.html (sorry for
> >> the Dutch language, but Google may translate it for you).
> >> This is the one:
> >> http://www.remeeus.eu/images/stories/scheveningenradio/Hans%20Hoevens.jpg
> >>

> >>
> >> 73,
> >> Hans Remeeus (PA1HR)
> >> http://www.remeeus.eu
> >> http://www.hansremeeus.nl
> >> Communication is about people, the rest is technology.
> >>
> >>
> >>
> >> Op 19-4-2011 23:03, graham787 schreef:
> >>> Ok Hans
> >>>
> >>> Well , noise blanking is one of those emotive things....from memory other than a simple clipping cct on the RA17 , I don't think Racal fitted a blanker to any of the solid-state RX's ?
> >>>
> >>> Once a pulse has passed the two filters , it not going to be simple to remove it , some sort of pin diode attenuator would have the bandwith , but personally I would not be tempted to dive into the set
> >>>
> >>> using a 'soft-rock' radio looking at the 455KHz IF o/p with the set in wide band 20Khz , which only then uses the roothing filter, and a software back end , gives good results , if you keep the gain down , then its quite impressive , but you are left with no more than a tunable down converter
> >>>
> >>> G..
> >>>
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> > >
> > > Yahoo! Groups Links
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>

1660. Type of display lamps?

Yahoo group: Racal6790GM
Date: 2011-04-23 08:58:11 UTC
From: Hans Remeeus
Topic: 1660 Message: 1660

Hello group,

All the lights behind the display of the Racal RA-1792 are dead. Not quite a surprise after 25 years...

In the Maintenance Manual Chapter 11 and Fig. 9.1 of the schematics I have found the Lamp Board ST85538 and information how to replace the lamps. I see that they are 9 Volt.

But I cannot find the type and size of the lamps. Where can I find this information so I can order the right lamps?

Thanks in advance and Happy Easter!

--
73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

1661. Re: [Racal6790GM] Type of display lamps?

Yahoo group: Racal6790GM
Date: 2011-04-23 09:10:44 UTC
From: Phill Simmons
Topic: 1660 Message: 1661

Hi Hans,

The bulbs for the lamp boards are rated around 25mA at 6V. (each lamp board will use around 435mA at 9V AC)
I manufacture my own lamp boards and use 20mA / 6V as sustitutes. They work OK with no problems. (only use 350mA)
Rgds,
Phill

From: Hans Remeeus <hans@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, 23 April, 2011 9:58:11
Subject: [Racal6790GM] Type of display lamps?

Hello group,

All the lights behind the display of the Racal RA-1792 are dead. Not quite a surprise after 25 years...

In the Maintenance Manual Chapter 11 and Fig. 9.1 of the schematics I have found the Lamp Board ST85538 and information how to replace the lamps. I see that they are 9 Volt.

But I cannot find the type and size of the lamps. Where can I find this information so I can order the right lamps?

Thanks in advance and Happy Easter!

-- 73, Hans Remeeus (PA1HR) http://www.remeeus.eu http://www.hansremeeus.nl
Communication is about people, the rest is technology.

1662. Re: [Racal6790GM] Type of display lamps?

Yahoo group: Racal6790GM
Date: 2011-04-23 10:26:45 UTC
From: casy_ch@tbwil.ch
Topic: 1660 Message: 1662

Hello Hans

I wonder what Maintenance manual you have? In mine Ref. TH3416 - Feb. 87 - Issue 11 (chapter 9 - components 3 [page 129]) the lamps are indicated as follows:
Lamp board ST85538
Lamp 5 V 0.3W - Racal part 941840

Vy 73 de Jean-Claude, HE9EZX

----- Original Message -----
From: Phill Simmons
To: Racal6790GM@yahoogroups.com
Sent: Saturday, April 23, 2011 11:10 AM
Subject: Re: [Racal6790GM] Type of display lamps?

Hi Hans,

The bulbs for the lamp boards are rated around 25mA at 6V. (each lamp board will use around 435mA at 9V AC)
I manufacture my own lamp boards and use 20mA / 6V as sustitutes. They work OK with no problems. (only use 350mA)
Rgds,
Phill

From: Hans Remeeus <hans@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, 23 April, 2011 9:58:11
Subject: [Racal6790GM] Type of display lamps?

Hello group,

All the lights behind the display of the Racal RA-1792 are dead. Not quite a surprise after 25 years...

In the Maintenance Manual Chapter 11 and Fig. 9.1 of the schematics I have found the Lamp Board ST85538 and information how to replace the lamps. I see that they are 9 Volt.

But I cannot find the type and size of the lamps. Where can I find this information so I can order the right lamps?

Thanks in advance and Happy Easter!

--
73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl

Communication is about people, the rest is technology.

1663. RA1792 back light bulbs

Yahoo group: Racal6790GM
Date: 2011-04-23 14:50:00 UTC
From: Dan Rae
Topic: 1663 Message: 1663

These were always specified as 5V 0.3W in all the manuals I have (5V 60 mA)

Whatever bulbs you do use, and changing the series R on the power supply permits a lot of latitude, it is worth changing all the bulbs at the same time otherwise you will get uneven illumination of the display, particularly if some of the old ones have blackened.

Dan

ac6ao / g3ncr

1664. Re: [Racal6790GM] RA1792 back light bulbs

Yahoo group: Racal6790GM
Date: 2011-04-23 15:07:28 UTC
From: Hans Remeeus
Topic: 1663 Message: 1664

Thanks Dan.

Do the bulbs look like: http://www2.conrad.nl/goto.php?artikel=720056 ?

I will change all the bulbs at the same time. That should be a wise
thing to do.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 23-4-2011 16:50, Dan Rae schreef:
> These were always specified as 5V 0.3W in all the manuals I have (5V 60
> mA)
>
> Whatever bulbs you do use, and changing the series R on the power supply
> permits a lot of latitude, it is worth changing all the bulbs at the
> same time otherwise you will get uneven illumination of the display,
> particularly if some of the old ones have blackened.
>
> Dan
>
> ac6ao / g3ncr
>
>

1665. Re: [Racal6790GM] Type of display lamps?

Yahoo group: Racal6790GM
Date: 2011-04-23 15:10:47 UTC
From: Hans Remeeus
Topic: 1660 Message: 1665

Hello Jean-Claude,

I have Issue 11 too.

Chapter 9 is the right one. Sorry, I was looking at chapter 11 (details
of display illumination).

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 23-4-2011 12:26, casy_ch@... schreef:
> ?
>
> Hello Hans
> I wonder what Maintenance manual you have? In mine Ref. TH3416 - Feb.
> 87 - Issue 11 (chapter 9 - components 3 [page 129]) the lamps are
> indicated as follows:
> Lamp board ST85538
> Lamp 5 V 0.3W - Racal part 941840
> Vy 73 de Jean-Claude, HE9EZX
>

1666. Re: [Racal6790GM] RA1792 back light bulbs

Yahoo group: Racal6790GM
Date: 2011-04-23 15:15:40 UTC
From: Hans Remeeus
Topic: 1663 Message: 1666

This is the same type of lamp, but 0,3 W:
http://www2.conrad.nl/goto.php?artikel=582712

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 23-4-2011 17:07, Hans Remeeus schreef:
>
>
>
> Thanks Dan.
>
> Do the bulbs look like: http://www2.conrad.nl/goto.php?artikel=720056 ?
>
> I will change all the bulbs at the same time. That should be a wise
> thing to do.
>
>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
> http://www.hansremeeus.nl
> Communication is about people, the rest is technology.
>
>
> Op 23-4-2011 16:50, Dan Rae schreef:
>> These were always specified as 5V 0.3W in all the manuals I have (5V 60
>> mA)
>>
>> Whatever bulbs you do use, and changing the series R on the power supply
>> permits a lot of latitude, it is worth changing all the bulbs at the
>> same time otherwise you will get uneven illumination of the display,
>> particularly if some of the old ones have blackened.
>>
>> Dan
>>
>> ac6ao / g3ncr
>>
>>
>
>
>

1667. Re: [Racal6790GM] RA1792 back light bulbs

Yahoo group: Racal6790GM
Date: 2011-04-23 15:59:53 UTC
From: Bob Betts
Topic: 1663 Message: 1667

Hans:
Bear in mind that tungsten (filament) life is very exponential. By reducing the bulb (rated) voltage by 10% will increase the failure time (MTBF) to about 300%, or more. The color temperature will go from white into the slightly yellow/amber range. To me, that's an additional advantage, since it's also easier on the eyes.

Bob, N1KPR

http://www.bobsamerica.com
* Music * Audio * Radio *
"It's all good"

Thanks Dan.

Do the bulbs look like: http://www2.conrad.nl/goto.php?artikel=720056 ?

I will change all the bulbs at the same time. That should be a wise thing to do.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

1668. Re: [Racal6790GM] RA1792 back light bulbs

Yahoo group: Racal6790GM
Date: 2011-04-23 16:03:08 UTC
From: Dan Rae
Topic: 1663 Message: 1668

On 4/23/2011 8:15 AM, Hans Remeeus wrote:
>
>
>
> This is the same type of lamp, but 0,3 W:
> http://www2.conrad.nl/goto.php?artikel=582712
>
>
That will work, yes Hans. These are getting expensive though! Maybe it
is time to try for an LED replacement? In the US the correct type is
Chicago Miniature 6832, also expensive, but has a long life, 40,000 hours.

Dan

1669. Re: [Racal6790GM] RA1792 back light bulbs

Yahoo group: Racal6790GM
Date: 2011-04-23 17:18:52 UTC
From: Hans Remeeus
Topic: 1663 Message: 1669

Hello Bob,

This is a very good suggestion; thanks! I'll go for it.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 23-4-2011 17:59, Bob Betts schreef:
>
>
> Hans:
> Bear in mind that tungsten (filament) life is very exponential. By
> reducing the bulb (rated) voltage by 10% will increase the failure
> time (MTBF) to about 300%, or more.
> The color temperature will go from white into the slightly
> yellow/amber range. To me, that's an additional advantage, since it's
> also easier on the eyes.
> Bob, N1KPR
>
> http://www.bobsamerica.com <http://www.bobsamerica.com/>
> * Music * Audio * Radio *
> /*"It's all good"*/
>
>
>
> Thanks Dan.
>
> Do the bulbs look like:
> http://www2.conrad.nl/goto.php?artikel=720056 ?
>
> I will change all the bulbs at the same time. That should be a
> wise thing to do.
>
>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu <http://www.remeeus.eu/>
> http://www.hansremeeus.nl <http://www.hansremeeus.nl/>
> Communication is about people, the rest is technology.
>
>
>
>

>
>

1670. Re: [Racal6790GM] RA1792 back light bulbs

Yahoo group: Racal6790GM
Date: 2011-04-23 17:21:59 UTC
From: Hans Remeeus
Topic: 1663 Message: 1670

Hello Dan,

Yes; LED illumination will be better. 40k hours is about 15 years daily operations; not bad!

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 23-4-2011 18:03, Dan Rae schreef:
> On 4/23/2011 8:15 AM, Hans Remeeus wrote:
>>
>>
>> This is the same type of lamp, but 0,3 W:
>> http://www2.conrad.nl/goto.php?artikel=582712
>>
>>
> That will work, yes Hans. These are getting expensive though! Maybe it
> is time to try for an LED replacement? In the US the correct type is
> Chicago Miniature 6832, also expensive, but has a long life, 40,000 hours.
>
> Dan
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

1671. Re: [Racal6790GM] RA1792 back light bulbs

Yahoo group: Racal6790GM
Date: 2011-04-23 17:32:10 UTC
From: Dan Rae
Topic: 1663 Message: 1671

On 4/23/2011 8:59 AM, Bob Betts wrote:
>
>
> Hans:
> Bear in mind that tungsten (filament) life is very exponential. By
> reducing the bulb (rated) voltage by 10% will increase the failure
> time (MTBF) to about 300%, or more.
> The color temperature will go from white into the slightly
> yellow/amber range. To me, that's an additional advantage, since it's
> also easier on the eyes.
> Bob, N1KPR
>
In the RA1972 the bulbs are already being operated at a lower Voltage than 5 since each panel has a series R nominally 3.3 Ohms in series with the bulbs for each display which are series pairs paralleled up, fed from a nominal 8.75 Volt AC supply. So there is approximately 1.2 Volts drop across the R, and around 4 V across each bulb...

Dan

1672. Re: Type of display lamps?

Yahoo group: Racal6790GM
Date: 2011-04-23 18:48:38 UTC
From: johnmarkconnor
Topic: 1660 Message: 1672

--- In Racal6790GM@yahoogroups.com, Hans Remeeus <hans@...> wrote:
>
>
> Hello group,
>
> All the lights behind the display of the Racal RA-1792 are dead. Not
> quite a surprise after 25 years...
>
> In the Maintenance Manual Chapter 11 and Fig. 9.1 of the schematics I
> have found the Lamp Board ST85538 and information how to replace the
> lamps. I see that they are 9 Volt.
>
> But I cannot find the type and size of the lamps. Where can I find
this
> information so I can order the right lamps?
>
> Thanks in advance and Happy Easter!
>
>
> --
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
> http://www.hansremeeus.nl
> Communication is about people, the rest is technology.

Hello Hans,

I replaced the bulbs in my RA-1792 about six months ago. After
finding the price of the bulbs at an outrageous level, I decided to use
"grain of wheat" bulbs commonly used for model trains. If you search
E-bay for "grain of wheat bulb" you will find a very nice selection
available for a very reasonable price. The bulbs are wired in series on
the lamp boards. I purchased 50 or 100 bulbs for not much more than a
single bulb through normal sources!
I hope this information proves to be useful to you.
Best regards,
Mark
>

1673. Re: [Racal6790GM] Re: Type of display lamps?

Yahoo group: Racal6790GM
Date: 2011-04-23 19:07:17 UTC
From: Hans Remeeus
Topic: 1660 Message: 1673

Hello Mark,

Thanks for the very useful info. I will have a look at eBay. Such a grain of wheat bulb would a better choice than 20 x $2.50...

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 23-4-2011 20:48, johnmarkconnor wrote:
>
> Hello Hans,
>
> I replaced the bulbs in my RA-1792 about six months ago. After
> finding the price of the bulbs at an outrageous level, I decided to use
> "grain of wheat" bulbs commonly used for model trains. If you search
> E-bay for "grain of wheat bulb" you will find a very nice selection
> available for a very reasonable price. The bulbs are wired in series on
> the lamp boards. I purchased 50 or 100 bulbs for not much more than a
> single bulb through normal sources!
> I hope this information proves to be useful to you.
> Best regards,
> Mark
>

1674. RA-3701 help

Yahoo group: Racal6790GM
Date: 2011-04-25 15:53:08 UTC
From: vk5abc
Topic: 1674 Message: 1674

Hello All

I am finally getting round to repairing my receiver and I am not sure about something. I have a module with a broken smb connector. I thought it would be straight forward until I opened it up. The smb connector is a panel mount bulkhead screw connector which has what looks like rg-174 which goes to pcb mount connector which has a crimp fitting of sorts. Can anyone tell what the pcb mount connector is?
BTW the module is the ref/bfo module and the smb is PL6
I have never terminated a smb connector before, yet.

73's Lee

1675. Re: [Racal6790GM] RA-3701 help

Yahoo group: Racal6790GM
Date: 2011-04-25 16:04:03 UTC
From: Dan Rae
Topic: 1674 Message: 1675

On 4/25/2011 8:53 AM, vk5abc wrote:
> Hello All
>
> I am finally getting round to repairing my receiver and I am not sure about something. I have a module with a broken smb connector. I thought it would be straight forward until I opened it up. The smb connector is a panel mount bulkhead screw connector which has what looks like rg-174 which goes to pcb mount connector which has a crimp fitting of sorts. Can anyone tell what the pcb mount connector is?
Lee, I had one of those. You will find it way easier to replace the
broken Bulkhead SMB connector. You don't even have to get the board out
and it is a standard SMB type item from Amphenol among others.

Dan

ac6ao / g3ncr

1676. RA-3712 Tech. Manual

Yahoo group: Racal6790GM
Date: 2011-04-26 06:00:31 UTC
From: federico@dottorbaldi.it
Topic: 1674 Message: 1676

Hi to All My Friends, I'm searching a copy (if is it possible in .pdf format) of the Service Manual of RA-3712. 73 de Federico IZ1FID

1677. Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-13 18:11:42 UTC
From: Hans Remeeus
Topic: 1677 Message: 1677

Hello group,

Today I replaced the two displays. Was not very easy to get all those tiny pins in the correct holes, but I managed... The new displays from Italy are great!

I also received the lamps.

But where are the lamp boards?

Behind the two displays I would expect the lamp boards, but nothing...

Thanks for help!

--
73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

1678. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-13 18:34:05 UTC
From: Dan Rae
Topic: 1677 Message: 1678

On 5/13/2011 11:11 AM, Hans Remeeus wrote:
>
>
>
> Hello group,
>
> Today I replaced the two displays. Was not very easy to get all those
> tiny pins in the correct holes, but I managed... The new displays from
> Italy are great!
>
> I also received the lamps.
>
> But where are the lamp boards?
>
> Behind the two displays I would expect the lamp boards, but nothing...
>
> Thanks for help!
>
>
Hans if you are talking about an RA1792 and not a 6790/GM, then there
are several versions or "Marks", 6 in all, some with back lit displays
and some not.

I have pasted a section of the catalog below:

RA1792/A ST80730/A Receiver N.F., synthesized, programmable.
15OkHz to 30MHz in 10Hz steps. Frequency entry keypad and single knob
tuning. programmable channels and memory, automatic channel scanning.

MARK 1 Chassis Assembly ST80753, 1st L.O. Synthesiser Mk1
ST08271 (ST80730) and A.C. Power Supply Mk1 ST08153. Serial Numbers
7030 to 7136 and 7141 to 7329.

MARK 2 Chassis Assembly ST80766, 1st L.O. Synthesiser Mk2
ST08545 (ST80730) and A.C. Power Supply Mk2 ST80784. Serial Numbers
7137 to 7140 and 7330 to 7399.

MARK 3 Chassis Assembly ST80767, 1st L.O. Synthesiser Mk3
ST80788 (ST80730)and A.C. Power Supply Mk2 ST80784. Serial Numbers
7400 to 9699, and 10000 to 10362.

MARK 4 Chassis Assembly ST82910, 1st L.O. Synthesiser Mk3
ST80788 (ST83000)and A.C. Power Supply Mk3 ST82922. Serial Numbers
9700 to 9999.

MARK 5 Chassis Assembly ST82128, 1st L.O. Synthesiser Mk4
ST83733 (ST82129)and A.C. Power Supply Mk3 ST82922. Serial Numbers

10363 to 10912.

MARK 6 Chassis Assembly ST82128, 1st L.O. Synthesiser Mk.4 (ST85830)A.C. Power Supply Mk.3 and Back Lit LCDs. Numbers 11047 onwards. (DC VERSION OBSOLETE MID 1984).

RA1792 Receiver Options

The RA1792 receivers are available in a range of options. The option fitted in a particular equipment is indicated by a suffix to the type number.

1st Suffix The identification of filters fitted is shown in Appendix 1.

2nd Suffix Identification of frequency standard fitted.
0 = No internal frequency standard fitted.
S1 = TCXO (standard) BD80789.
S2 = 9442 ST80764.

3rd Suffix Identification of ISB facility and 100kHz IF output(s).
0 = Neither required.
B = Fitted with ISB Fit Kit ST80754 (this includes ISB board ST08109) for 455kHz outputs only.
S = Fitted with Converter Kit ST85433 (51-3001) for 100kHz SSB outputs.
I = Fitted with ISB Board ST08109 and Converter Kit ST85431 (51-3002) for 100kHz ISB outputs.
P = Fitted with Panoramic Adaptor Kit ST82308.

4th Suffix Identification of external control facilities either by SCORE or programmed channels via BCD lines.
0 = Not required.
S = SCORE Interface Kit fitted ST80756.
C = Channel interface (BCD) kit fitted. ST80757.
D = IEEE488 Data Interface Module ST85435 (51-3003) fitted.
E = Interface with SU256A fitted. ST81531.
F = Interface with SU256B fitted. ST81532.
G = Interface with MA1103A fitted. ST82762.
H = Interface with MA1103B fitted. ST82763.

NOTE: When an SU330 Dual AFC Unit is used, two fit kits ST82763 will be required.

5th Suffix Identification of frequency resolution and automatic search facilities.
0 = 10Hz frequency steps with list search.
1 = 1Hz frequency steps with list search.
2 = 10Hz frequency steps with scan search.
3 = 1Hz frequency steps with scan search.
4 = 10Hz frequency steps with list search and special facility.

5 = 1Hz frequency steps with list search and special facility.
6 = 10Hz frequency steps with scan search and special facility.
7 = 1Hz frequency steps with scan search and special facility.

NOTES: List = Ten decades of pre-set channels.
Scan = 100 pre-set channels.
Special Facility = Options 4 to 7 above must not be
offered or specified without prior
authorisation from Area H
Marketing Department.

6th Suffix Identification of Power Units ac (standard) or dc
(optional)
A = AC Power supply unit fitted. (standard)
D = DC Power supply unit fitted. ST80762.
NOTE: The DC version became obsolete in mid 1984.

RA1792/B ST80730/B Standard receiver modified to scan 100
channels and also provide 16kHz i.f. output for an SDU via a rear BNC
connector in place of i.s.b output at J9. Option GB/S2/P/S/0/A.
(CRE22318/A).

1679. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-13 18:41:59 UTC
From: Hans Remeeus
Topic: 1677 Message: 1679

Hello Dan,

Thanks for your answer!

Mine is the RA1792, with serial number 1115. According to your
information it is the Mark 6 (with backlit LCD's).

I has not the ISB option and 100 kHz output, but all the filters and TCXO.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 13-5-2011 20:34, Dan Rae schreef:
> On 5/13/2011 11:11 AM, Hans Remeeus wrote:
>>
>>
>> Hello group,
>>
>> Today I replaced the two displays. Was not very easy to get all those
>> tiny pins in the correct holes, but I managed... The new displays from
>> Italy are great!
>>
>> I also received the lamps.
>>
>> But where are the lamp boards?
>>
>> Behind the two displays I would expect the lamp boards, but nothing...
>>
>> Thanks for help!
>>
>>
> Hans if you are talking about an RA1792 and not a 6790/GM, then there
> are several versions or "Marks", 6 in all, some with back lit displays
> and some not.
>
> I have pasted a section of the catalog below:
>
>
> RA1792/A ST80730/A Receiver N.F., synthesized, programmable.
> 150kHz to 30MHz in 10Hz steps. Frequency entry keypad and single knob
> tuning. programmable channels and memory, automatic channel scanning.
>
> MARK 1 Chassis Assembly ST80753, 1st L.O. Synthesiser Mk1

> ST08271 (ST80730) and A.C. Power Supply Mk1 ST08153. Serial Numbers
> 7030 to 7136 and 7141 to 7329.
>
> MARK 2 Chassis Assembly ST80766, 1st L.O. Synthesiser Mk2
> ST08545 (ST80730) and A.C. Power Supply Mk2 ST80784. Serial Numbers
> 7137 to 7140 and 7330 to 7399.
>
> MARK 3 Chassis Assembly ST80767, 1st L.O. Synthesiser Mk3
> ST80788 (ST80730)and A.C. Power Supply Mk2 ST80784. Serial Numbers
> 7400 to 9699, and 10000 to 10362.
>
> MARK 4 Chassis Assembly ST82910, 1st L.O. Synthesiser Mk3
> ST80788 (ST83000)and A.C. Power Supply Mk3 ST82922. Serial Numbers
> 9700 to 9999.
>
> MARK 5 Chassis Assembly ST82128, 1st L.O. Synthesiser Mk4
> ST83733 (ST82129)and A.C. Power Supply Mk3 ST82922. Serial Numbers
> 10363 to 10912.
>
> MARK 6 Chassis Assembly ST82128, 1st L.O. Synthesiser Mk.4
> (ST85830)A.C. Power Supply Mk.3 and Back Lit LCDs. Numbers 11047
> onwards. (DC VERSION OBSOLETE MID 1984).
>
>
>

1680. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-13 18:46:52 UTC
From: Hans Remeeus
Topic: 1677 Message: 1680

Typo; the serial number is 11115.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 13-5-2011 20:41, Hans Remeeus schreef:
>
>
>
> Hello Dan,
>
> Thanks for your answer!
>
> Mine is the RA1792, with serial number 1115. According to your
> information it is the Mark 6 (with backlit LCD's).
>
> I has not the ISB option and 100 kHz output, but all the filters and TCXO.
>
>
>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
> http://www.hansremeeus.nl
> Communication is about people, the rest is technology.
>
>
> Op 13-5-2011 20:34, Dan Rae schreef:
>> On 5/13/2011 11:11 AM, Hans Remeeus wrote:
>>>
>>> Hello group,
>>>
>>> Today I replaced the two displays. Was not very easy to get all those
>>> tiny pins in the correct holes, but I managed... The new displays from
>>> Italy are great!
>>>
>>> I also received the lamps.
>>>
>>> But where are the lamp boards?
>>>
>>> Behind the two displays I would expect the lamp boards, but nothing...
>>>

>>> Thanks for help!
>>>
>>>
>> Hans if you are talking about an RA1792 and not a 6790/GM, then there
>> are several versions or "Marks", 6 in all, some with back lit displays
>> and some not.
>>
>> I have pasted a section of the catalog below:
>>
>>
>> RA1792/A ST80730/A Receiver N.F., synthesized, programmable.
>> 150kHz to 30MHz in 10Hz steps. Frequency entry keypad and single knob
>> tuning. programmable channels and memory, automatic channel scanning.
>>
>> MARK 1 Chassis Assembly ST80753, 1st L.O. Synthesiser Mk1
>> ST08271 (ST80730) and A.C. Power Supply Mk1 ST08153. Serial Numbers
>> 7030 to 7136 and 7141 to 7329.
>>
>> MARK 2 Chassis Assembly ST80766, 1st L.O. Synthesiser Mk2
>> ST08545 (ST80730) and A.C. Power Supply Mk2 ST80784. Serial Numbers
>> 7137 to 7140 and 7330 to 7399.
>>
>> MARK 3 Chassis Assembly ST80767, 1st L.O. Synthesiser Mk3
>> ST80788 (ST80730)and A.C. Power Supply Mk2 ST80784. Serial Numbers
>> 7400 to 9699, and 10000 to 10362.
>>
>> MARK 4 Chassis Assembly ST82910, 1st L.O. Synthesiser Mk3
>> ST80788 (ST83000)and A.C. Power Supply Mk3 ST82922. Serial Numbers
>> 9700 to 9999.
>>
>> MARK 5 Chassis Assembly ST82128, 1st L.O. Synthesiser Mk4
>> ST83733 (ST82129)and A.C. Power Supply Mk3 ST82922. Serial Numbers
>> 10363 to 10912.
>>
>> MARK 6 Chassis Assembly ST82128, 1st L.O. Synthesiser Mk.4
>> (ST85830)A.C. Power Supply Mk.3 and Back Lit LCDs. Numbers 11047
>> onwards. (DC VERSION OBSOLETE MID 1984).
>>
>>
>>
>
>
>

1681. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-13 18:56:45 UTC
From: Dan Rae
Topic: 1677 Message: 1681

On 5/13/2011 11:46 AM, Hans Remeeus wrote:
>
>
>
> Typo; the serial number is 11115.
>
>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
> http://www.hansremeeus.nl
> Communication is about people, the rest is technology.
>
>
> Op 13-5-2011 20:41, Hans Remeeus schreef:
>>
>> Hello Dan,
>>
>> Thanks for your answer!
>>
>> Mine is the RA1792, with serial number 1115. According to your
>> information it is the Mark 6 (with backlit LCD's).
>>
>> I has not the ISB option and 100 kHz output, but all the filters and
>> TCXO.
>>
>>
Hans, it's not my information, but Racal's. The best clue is to look at the ST number on the plate at the back. ST85830 is the Mark 6 with back light. The last version made.

But if you didn't see the lamp boards when you had the displays out, then that is a mystery! Maybe someone has been swapping parts over?

Dan

ac6ao / g3ncr

1682. RE: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-13 19:05:54 UTC
From: Andy Jackson G8JAC
Topic: 1677 Message: 1682

Perhaps more to the point - look at the power unit module at the back. Does it have two resistors mounted on the outside? These feed the lamp boards.

Andy G8JAC

..>Hans, it's not my information, but Racal's. The best clue is to look at
..>the ST number on the plate at the back. ST85830 is the Mark 6 with back
..>light. The last version made.
..>
..>But if you didn't see the lamp boards when you had the displays out,
..>then that is a mystery! Maybe someone has been swapping parts over?
..>
..>Dan
..>
..>ac6ao / g3ncr
.

1683. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-13 19:11:08 UTC
From: Dan Rae
Topic: 1677 Message: 1683

Hans,

The lamp boards are mounted on two (?) metal pillars to the PC board
which also carry the lamp voltage. Possibly they were removed at some point?

Another clue is that in the back lit version the power supply has two
small wire wound Resistors on stand offs on the front face, which are
the series dropping Rs for the lamps. Although I did have one Mark 6
with an older power supply fitted...

Dan

1684. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-13 19:31:36 UTC
From: Hans Remeeus
Topic: 1677 Message: 1684

Hello Dan,

On the rear there is written: ST85830.

Very strange indeed.

It could be that parts are swapped in the meantime (25 years), but I
don't see any connection for the lamp boards either. Nothing that could
be something to do with a lampboard.

What I see behind the two display's is the back of a PCB with a lot of
IC's (8 behind each display).

I am not very happy, because I bought 30 lamps for nothing...

The two new displays however are a big improvement!

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 13-5-2011 20:56, Dan Rae schreef:
> On 5/13/2011 11:46 AM, Hans Remeeus wrote:
>>
>>
>> Typo; the serial number is 11115.
>>
>>
>> 73,
>> Hans Remeeus (PA1HR)
>> http://www.remeeus.eu
>> http://www.hansremeeus.nl
>> Communication is about people, the rest is technology.
>>
>>
>> Op 13-5-2011 20:41, Hans Remeeus schreef:
>>> Hello Dan,
>>>
>>> Thanks for your answer!
>>>
>>> Mine is the RA1792, with serial number 1115. According to your
>>> information it is the Mark 6 (with backlit LCD's).
>>>
>>> I has not the ISB option and 100 kHz output, but all the filters and
>>> TCXO.

>>>
>>>
> Hans, it's not my information, but Racal's. The best clue is to look at
> the ST number on the plate at the back. ST85830 is the Mark 6 with back
> light. The last version made.
>
> But if you didn't see the lamp boards when you had the displays out,
> then that is a mystery! Maybe someone has been swapping parts over?
>
> Dan
>
> ac6ao / g3ncr
>
>

1685. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-13 19:34:00 UTC
From: Hans Remeeus
Topic: 1677 Message: 1685

Hello Andy,

Yes, it has. R3 and R4.

The PS is P/N ST82922.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 13-5-2011 21:05, Andy Jackson G8JAC schreef:
> Perhaps more to the point - look at the power unit module at the back. Does
> it have two resistors mounted on the outside? These feed the lamp boards.
>
> Andy G8JAC
>
>
> ..>Hans, it's not my information, but Racal's. The best clue is to look at
> ..>the ST number on the plate at the back. ST85830 is the Mark 6 with back
> ..>light. The last version made.
> ..>
> ..>But if you didn't see the lamp boards when you had the displays out,
> ..>then that is a mystery! Maybe someone has been swapping parts over?
> ..>
> ..>Dan
> ..>
> ..>ac6ao / g3ncr
> .
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>

1686. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-13 19:36:36 UTC
From: Hans Remeeus
Topic: 1677 Message: 1686

Hello Dan,

I don't see any unused metal pillars on the PC board. I only see metal pillars to hold the front panel.

The PS has indeed the two resistors on stand offs.

Very very strange indeed...

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 13-5-2011 21:11, Dan Rae schreef:
> Hans,
>
> The lamp boards are mounted on two (?) metal pillars to the PC board
> which also carry the lamp voltage. Possibly they were removed at some point?
>
> Another clue is that in the back lit version the power supply has two
> small wire wound Resistors on stand offs on the front face, which are
> the series dropping Rs for the lamps. Although I did have one Mark 6
> with an older power supply fitted...
>
> Dan
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

1687. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-13 20:45:41 UTC
From: Dan Rae
Topic: 1677 Message: 1687

On 5/13/2011 12:36 PM, Hans Remeeus wrote:
>
>
>
> Hello Dan,
>
> I don't see any unused metal pillars on the PC board. I only see metal
> pillars to hold the front panel.
>
> The PS has indeed the two resistors on stand offs.
>
> Very very strange indeed...
>
It's been a few years since I looked inside one so I don't remember the exact details, but I suspect in your case the lamp boards have been removed from what you say. It would not be very difficult to make new ones,/if/ you have the correct front panel PC board. Possibly also yours has been fitted with an older A9A1 front panel board if you see no signs of the mountings for the lamp board. But I thought there were differences in the later A9 boards to do with BITE voltage measuring that makes them not interchangeable.

I don't have a Mark 6 1792 A9A1 board that I can easily look at or photograph at the moment so I can't help further. I think you may have a bit of a Frankenstein radio :^(

Dan

1688. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-13 21:06:08 UTC
From: Dan Rae
Topic: 1677 Message: 1688

OK, Hans, I got a Mark 6 from the garage, removed the front panel and a display and took a picture of the lamp board, which will show (a) how it is mounted, with the two M3 screws and (b) enough to duplicate them if you need to.

I have uploaded it to the photos section: album "1792 lamp board"

Dan

1689. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-13 21:33:00 UTC
From: casy_ch@tbwil.ch
Topic: 1677 Message: 1689
Attachments: 3 described; binary payloads are missing from this source WARC

Sorry Hans, I have to write you in private because of attached pics.

I had a non backlighted as well and wanted to add my own board to backlighting it. I abandonned the project, too tedious to make it. For that purpose I took some pics of one of my two backlighted units.

You will see under the flat aluminium bar once the illuminated backlight and another time switched off.

Vy 73 de Jean-Claude, HE9EZX

----- Original Message -----
From: Hans Remeeus
To: Racal6790GM@yahoogroups.com
Sent: Friday, May 13, 2011 9:31 PM
Subject: Re: [Racal6790GM] Where is the lamp board?

Hello Dan,

On the rear there is written: ST85830.

Very strange indeed.

It could be that parts are swapped in the meantime (25 years), but I don't see any connection for the lamp boards either. Nothing that could be something to do with a lampboard.

What I see behind the two display's is the back of a PCB with a lot of IC's (8 behind each display).

I am not very happy, because I bought 30 lamps for nothing...

The two new displays however are a big improvement!

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 13-5-2011 20:56, Dan Rae schreef:
On 5/13/2011 11:46 AM, Hans Remeeus wrote:

Typo; the serial number is 11115.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu

http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 13-5-2011 20:41, Hans Remeeus schreef:
Hello Dan,

Thanks for your answer!

Mine is the RA1792, with serial number 1115. According to your information it is the Mark 6 (with backlit LCD's).

I has not the ISB option and 100 kHz output, but all the filters and TCXO.

Hans, it's not my information, but Racal's. The best clue is to look at the ST number on the plate at the back. ST85830 is the Mark 6 with back light. The last version made.

But if you didn't see the lamp boards when you had the displays out, then that is a mystery! Maybe someone has been swapping parts over?

Dan

ac6ao / g3ncr

1690. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-14 06:25:43 UTC
From: Hans Remeeus
Topic: 1677 Message: 1690

Hello Dan,

Many thanks for the photo! This board is definitely not behind my displays, no supports for such a board either.

I must have a very special "collectors item" Racal RA1792 ;-) ;-)

I can live without the backlight. The lamps I bought hopefully will get another destination.

The two new display are a big improvement. Perhaps I will find out a kind of frontlight instead of a backlight of both the displays...

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 13-5-2011 23:06, Dan Rae schreef:
> OK, Hans, I got a Mark 6 from the garage, removed the front panel and a
> display and took a picture of the lamp board, which will show (a) how it
> is mounted, with the two M3 screws and (b) enough to duplicate them if
> you need to.
>
> I have uploaded it to the photos section: album "1792 lamp board"
>
> Dan
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

1691. Re: [Racal6790GM] Where is the lamp board? [3 Attachments]

Yahoo group: Racal6790GM
Date: 2011-05-14 06:29:05 UTC
From: Hans Remeeus
Topic: 1677 Message: 1691

Hello Jean-Claude,

Many thanks for the information and the three photos!

Perhaps I can figure out some kind of easy to install frontlight instead
of backlights. Without any light it is not always good to see all the
text of the displays; the right one in particularly.

Nice weekend and all the best!

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 13-5-2011 23:33, casy_ch@... schreef:
> [Attachment(s) <#TopText> from casy_ch@... included below]
>
> Sorry Hans, I have to write you in private because of attached pics.
> I had a non backlighted as well and wanted to add my own board to
> backlighting it. I abandonned the project, too tedious to make it. For
> that purpose I took some pics of one of my two backlighted units.
> You will see under the flat aluminium bar once the illuminated
> backlight and another time switched off.
> Vy 73 de Jean-Claude, HE9EZX
>
> ----- Original Message -----
> *From:* Hans Remeeus <mailto:hans@...>
> *To:* Racal6790GM@yahoogroups.com
> <mailto:Racal6790GM@yahoogroups.com>
> *Sent:* Friday, May 13, 2011 9:31 PM
> *Subject:* Re: [Racal6790GM] Where is the lamp board?
>
>
> Hello Dan,
>
> On the rear there is written: ST85830.
>
> Very strange indeed.
>
> It could be that parts are swapped in the meantime (25 years), but
> I don't see any connection for the lamp boards either. Nothing
> that could be something to do with a lampboard.
>
> What I see behind the two display's is the back of a PCB with a

> lot of IC's (8 behind each display).
>
> I am not very happy, because I bought 30 lamps for nothing...
>
> The two new displays however are a big improvement!
>
>
>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
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>
>
> Op 13-5-2011 20:56, Dan Rae schreef:
>> On 5/13/2011 11:46 AM, Hans Remeeus wrote:
>>> Typo; the serial number is 11115.
>>>
>>>
>>> 73,
>>> Hans Remeeus (PA1HR)
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>>> Communication is about people, the rest is technology.
>>>
>>>
>>> Op 13-5-2011 20:41, Hans Remeeus schreef:
>>>> Hello Dan,
>>>>
>>>> Thanks for your answer!
>>>>
>>>> Mine is the RA1792, with serial number 1115. According to your
>>>> information it is the Mark 6 (with backlit LCD's).
>>>>
>>>> I has not the ISB option and 100 kHz output, but all the filters and
>>>> TCXO.
>>>>
>>>>
>> Hans, it's not my information, but Racal's. The best clue is to look at
>> the ST number on the plate at the back. ST85830 is the Mark 6 with back
>> light. The last version made.
>>
>> But if you didn't see the lamp boards when you had the displays out,
>> then that is a mystery! Maybe someone has been swapping parts over?
>>
>> Dan
>>
>> ac6ao / g3ncr

>>
>>
>
> Attachment(s) from casy_ch@...
>
> 3 of 3 Photo(s)
>
> Racal_RA-1792_Beleuchtetes_Display_01.jpg
> <http://groups.yahoo.com/group/Racal6790GM/attachments/folder/1875929390/item/175673401/view>
> Racal_RA-1792_Beleuchtetes_Display_01.jpg
> <http://groups.yahoo.com/group/Racal6790GM/attachments/folder/1875929390/item/175673401/view>
> Racal_RA-1792_Beleuchtetes_Display_03.jpg
> <http://groups.yahoo.com/group/Racal6790GM/attachments/folder/1875929390/item/237660222/view>
> Racal_RA-1792_Beleuchtetes_Display_03.jpg
> <http://groups.yahoo.com/group/Racal6790GM/attachments/folder/1875929390/item/237660222/view>
> Racal_RA-1792_Beleuchtetes_Display_04.jpg
> <http://groups.yahoo.com/group/Racal6790GM/attachments/folder/1875929390/item/1901732907/view>
> Racal_RA-1792_Beleuchtetes_Display_04.jpg
> <http://groups.yahoo.com/group/Racal6790GM/attachments/folder/1875929390/item/1901732907/view>
>
>
>

1692. Re: Where is the lamp board? [3 Attachments]

Yahoo group: Racal6790GM
Date: 2011-05-14 11:28:54 UTC
From: znww5
Topic: 1677 Message: 1692

Hans,

I bought the Italian LCDs for my 1792 and backlighting would not help much because of the metallic film on the back of the displays - most of the light simply does not get through.

Slightly OT:
However, I found a way of removing the metallic film from the displays and I now use them in a backlit 1792. The process takes about an hour for each display and involves carefully peeling the film away then removing the remaining glue and metallic material by soaking the LCD in methylated spirits. A soft Q-tip (a small stick with cotton wool on each end) is used to very very gently rub the residue off the rear of the LCD.

73 de David, G4IRQ

--- In Racal6790GM@yahoogroups.com, Hans Remeeus <hans@...> wrote:
>
>
> Hello Jean-Claude,
>
> Many thanks for the information and the three photos!
>
> Perhaps I can figure out some kind of easy to install frontlight instead
> of backlights. Without any light it is not always good to see all the
> text of the displays; the right one in particularly.
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> Nice weekend and all the best!
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> Hans Remeeus (PA1HR)
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>
> Op 13-5-2011 23:33, casy_ch@... schreef:
> > [Attachment(s) <#TopText> from casy_ch@... included below]
> >
> > Sorry Hans, I have to write you in private because of attached pics.
> > I had a non backlighted as well and wanted to add my own board to
> > backlighting it. I abandonned the project, too tedious to make it. For
> > that purpose I took some pics of one of my two backlighted units.
> > You will see under the flat aluminium bar once the illuminated
> > backlight and another time switched off.
> > Vy 73 de Jean-Claude, HE9EZX

> >
> > ----- Original Message -----
> > *From:* Hans Remeeus <mailto:hans@...>
> > *To:* Racal6790GM@yahoogroups.com
> > <mailto:Racal6790GM@yahoogroups.com>
> > *Sent:* Friday, May 13, 2011 9:31 PM
> > *Subject:* Re: [Racal6790GM] Where is the lamp board?
> >
> >
> > Hello Dan,
> >
> > On the rear there is written: ST85830.
> >
> > Very strange indeed.
> >
> > It could be that parts are swapped in the meantime (25 years), but
> > I don't see any connection for the lamp boards either. Nothing
> > that could be something to do with a lampboard.
> >
> > What I see behind the two display's is the back of a PCB with a
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> > The two new displays however are a big improvement!
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> > 73,
> > Hans Remeeus (PA1HR)
> > http://www.remeeus.eu
> > http://www.hansremeeus.nl
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> >
> > Op 13-5-2011 20:56, Dan Rae schreef:
> >> On 5/13/2011 11:46 AM, Hans Remeeus wrote:
> >>> Typo; the serial number is 11115.
> >>>
> >>>
> >>> 73,
> >>> Hans Remeeus (PA1HR)
> >>> http://www.remeeus.eu
> >>> http://www.hansremeeus.nl
> >>> Communication is about people, the rest is technology.
> >>>
> >>>
> >>> Op 13-5-2011 20:41, Hans Remeeus schreef:
> >>>> Hello Dan,

> >>>>
> >>>> Thanks for your answer!
> >>>>
> >>>> Mine is the RA1792, with serial number 1115. According to your
> >>>> information it is the Mark 6 (with backlit LCD's).
> >>>>
> >>>> I has not the ISB option and 100 kHz output, but all the filters and
> >>>> TCXO.
> >>>>
> >>>>
> >> Hans, it's not my information, but Racal's. The best clue is to look at
> >> the ST number on the plate at the back. ST85830 is the Mark 6 with back
> >> light. The last version made.
> >>
> >> But if you didn't see the lamp boards when you had the displays out,
> >> then that is a mystery! Maybe someone has been swapping parts over?
> >>
> >> Dan
> >>
> >> ac6ao / g3ncr
> >>
> >>
> >
> > Attachment(s) from casy_ch@...
> >
> > 3 of 3 Photo(s)
> >
> > Racal_RA-1792_Beleuchtetes_Display_01.jpg
> > <http://groups.yahoo.com/group/Racal6790GM/attachments/folder/1875929390/item/175673401/view>
> > Racal_RA-1792_Beleuchtetes_Display_01.jpg
> > <http://groups.yahoo.com/group/Racal6790GM/attachments/folder/1875929390/item/175673401/view>
> > Racal_RA-1792_Beleuchtetes_Display_03.jpg
> > <http://groups.yahoo.com/group/Racal6790GM/attachments/folder/1875929390/item/237660222/view>
> > Racal_RA-1792_Beleuchtetes_Display_03.jpg
> > <http://groups.yahoo.com/group/Racal6790GM/attachments/folder/1875929390/item/237660222/view>
> > Racal_RA-1792_Beleuchtetes_Display_04.jpg
> > <http://groups.yahoo.com/group/Racal6790GM/attachments/folder/1875929390/item/190173290707/view>
> > Racal_RA-1792_Beleuchtetes_Display_04.jpg
> > <http://groups.yahoo.com/group/Racal6790GM/attachments/folder/1875929390/item/190173290707/view>
> >
> >
> >
>

1693. RE: [Racal6790GM] Re: Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-14 12:05:39 UTC
From: Andy Jackson G8JAC
Topic: 1677 Message: 1693

I once did the reverse of this to repair a non-backlit 1792 with a
translucent LCD.
I just stuck cooking foil on the back to make it reflective.

Andy G8JAC

..>Slightly OT:
..>However, I found a way of removing the metallic film from the
..>displays and I now use them in a backlit 1792. The process takes
..>about an hour for each display and involves carefully peeling
..>the film away then removing the remaining glue and metallic
..>material by soaking the LCD in methylated spirits. A soft Q-tip
..>(a small stick with cotton wool on each end) is used to very
..>very gently rub the residue off the rear of the LCD.
..>
..>
..>73 de David, G4IRQ

1694. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-14 14:06:06 UTC
From: Dan Rae
Topic: 1677 Message: 1694

On 5/13/2011 11:25 PM, Hans Remeeus wrote:
>
>
>
> Perhaps I will find out a kind of frontlight instead of a backlight
> of both the displays...
>
>
Hans, I have added a picture to the same folder of led illumination I added to an older 1792. This was done with surface mount yellow leds mounted on narrow strips of printed circuit board material. Although not as effective as the side lighting in the GM it is better than nothing in an older version of the radio, but there is very little space for it.

Dan

1695. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-14 19:15:36 UTC
From: Hans Remeeus
Topic: 1677 Message: 1695

Hello Dan,

Thanks for the info and the picture.

You gave me a very good idea. I found this:
http://www2.conrad.nl/goto.php?artikel=046170

Perhaps this LED-strip is useful as illumination of the two displays.

This is the translation of the Dutch text on the Conrad site:

/12V LED strips including power supply
Create your own an affordable way (mood) lighting with this white-hot 12V LED strips.
The rigid LED strips contain 8 each warm white SMD LEDs, which provide excellent light. These LEDs are protected by diodes against reverse polarity and transient voltage spikes, in addition to resistance to the flow boundary. The LED strip can be marked by points divided into 2, 4 or 6 LEDs.
Each LED strip already has a cable, which you can use for feeding or for linking multiple LED strips.
The included power supply is easy to connect to the LED strips. You should remove the plug and the two veins on the first LED strip soldering. Because the voltage is adjustable from 3-12V =, use it to simply dimming the LED strips (this is also possible through PWM).
The LED strips are not suitable for use on alternating current (transformers). This can interfere with the LED strips.
/
The length of one LED-strip is about the same as the two displays of the RA1792.
The strip are very thin, so installation should be no problem somewhere above the two displays.

What do you think?

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 14-5-2011 16:06, Dan Rae schreef:
> On 5/13/2011 11:25 PM, Hans Remeeus wrote:
>>
>>
>> Perhaps I will find out a kind of frontlight instead of a backlight
>> of both the displays...

>>
>>
> Hans, I have added a picture to the same folder of led illumination I
> added to an older 1792. This was done with surface mount yellow leds
> mounted on narrow strips of printed circuit board material. Although
> not as effective as the side lighting in the GM it is better than
> nothing in an older version of the radio, but there is very little space
> for it.
>
> Dan
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

1696. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-14 19:38:32 UTC
From: Dan Rae
Topic: 1677 Message: 1696

On 5/14/2011 12:15 PM, Hans Remeeus wrote:
>
>
>
> Hello Dan,
>
> Thanks for the info and the picture.
>
> You gave me a very good idea. I found this:
> http://www2.conrad.nl/goto.php?artikel=046170
>
> Perhaps this LED-strip is useful as illumination of the two displays.
>
Hans, I am not sure those would work. In the one I did I used sideways shining LEDs, not the ones that shine at right angles to the board, and even with eight of them on each side (and a series surface mount R) there is not a lot of illumination of the display. If you can get now white ones that are brighter that would be better, but they have to be a sideways firing type. The ones I used were no more than 2 MM thick and mounted on thin PC board material as well.

The PC board strips are very easy to make with just slots cut in the copper, no need to etch.

There is a very small gap to get these into.

Dan

1697. BITE Error message 99?

Yahoo group: Racal6790GM
Date: 2011-05-14 20:47:43 UTC
From: Dan Rae
Topic: 1697 Message: 1697

I have a GM-3 (Z80 cpu board) which although seemingly working fine ends BITE with an error 99 displayed.

None of the manuals I have even mentions this, they all stop at thirty something.

Clues anyone?

Dan

1698. Backup battery 2,4V how much mAh?

Yahoo group: Racal6790GM
Date: 2011-05-15 09:27:22 UTC
From: Hans Remeeus
Topic: 1698 Message: 1698

Hello Group,

I want to replace the backup battery of the Racal RA1792.

I found Emmerich NiMH cells of 2,4 Volt.

http://www2.conrad.nl/goto.php?artikel=251546

How much mAh the battery must be; 80, 170, 230 or 300 mAh?

Or does only the size matter?

Thanks!

--
73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

1699. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-15 10:00:06 UTC
From: Hans Remeeus
Topic: 1677 Message: 1699

Hello Dan,

Thanks for the info again.

Perhaps I can find some solution which illuminates the two displays in a certain way. Some illuminations is better than no one at all.
When the displays of the RA1792 are at eyehight level it is okay, but when the receiver is on the table (even tilted) it is very hard to read the displays.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 14-5-2011 21:38, Dan Rae schreef:
> On 5/14/2011 12:15 PM, Hans Remeeus wrote:
>>
>>
>> Hello Dan,
>>
>> Thanks for the info and the picture.
>>
>> You gave me a very good idea. I found this:
>> http://www2.conrad.nl/goto.php?artikel=046170
>>
>> Perhaps this LED-strip is useful as illumination of the two displays.
>>
> Hans, I am not sure those would work. In the one I did I used sideways
> shining LEDs, not the ones that shine at right angles to the board, and
> even with eight of them on each side (and a series surface mount R)
> there is not a lot of illumination of the display. If you can get now
> white ones that are brighter that would be better, but they have to be a
> sideways firing type. The ones I used were no more than 2 MM thick and
> mounted on thin PC board material as well.
>
> The PC board strips are very easy to make with just slots cut in the
> copper, no need to etch.
>
> There is a very small gap to get these into.
>
> Dan
>
>
>

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> ------------------------------------
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> Yahoo! Groups Links
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>

1700. Re: [Racal6790GM] Backup battery 2,4V how much mAh?

Yahoo group: Racal6790GM
Date: 2011-05-15 14:33:54 UTC
From: Dan Rae
Topic: 1698 Message: 1700

On 5/15/2011 2:27 AM, Hans Remeeus wrote:
>
>
>
> Hello Group,
>
> I want to replace the backup battery of the Racal RA1792.
>
> I found Emmerich NiMH cells of 2,4 Volt.
>
> http://www2.conrad.nl/goto.php?artikel=251546
>
> How much mAh the battery must be; 80, 170, 230 or 300 mAh?
>
> Or does only the size matter?
>
Hans, in the later RA1792s the battery was NOT a round type and I don't think the ones you show will fit very well, space is limited at the bottom of the board.

In the EU they are made by Varta and should be a lot easier to find than here in the US.

RS Components sell an equivalent:
http://uk.rs-online.com/web/search/searchBrowseAction.html?method=searchProducts&searchTerm=422-371&x=24&y=15
<http://uk.rs-online.com/web/search/searchBrowseAction.html?method=searchProducts&searchTerm=422-371&x=24&y=15>

from which page you can get the size. I don't know the Varta number.

Dan

1701. Re: [Racal6790GM] Backup battery 2,4V how much mAh?

Yahoo group: Racal6790GM
Date: 2011-05-15 16:00:58 UTC
From: Hans Remeeus
Topic: 1698 Message: 1701

Thanks Dan! I will find one.

The battery which is now in my RA1792 is the Varta 2/100 DKO:
http://www.preissuchmaschine.de/preisvergleich/popup.asp?pid=736839488&pnr=1&foto=1
The middle one on the photo.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 15-5-2011 16:33, Dan Rae schreef:
> On 5/15/2011 2:27 AM, Hans Remeeus wrote:
>>
>>
>> Hello Group,
>>
>> I want to replace the backup battery of the Racal RA1792.
>>
>> I found Emmerich NiMH cells of 2,4 Volt.
>>
>> http://www2.conrad.nl/goto.php?artikel=251546
>>
>> How much mAh the battery must be; 80, 170, 230 or 300 mAh?
>>
>> Or does only the size matter?
>>
> Hans, in the later RA1792s the battery was NOT a round type and I don't
> think the ones you show will fit very well, space is limited at the
> bottom of the board.
>
> In the EU they are made by Varta and should be a lot easier to find than
> here in the US.
>
> RS Components sell an equivalent:
> http://uk.rs-online.com/web/search/searchBrowseAction.html?method=searchProducts&searchTerm=422-371&x=24&y=15
> <http://uk.rs-online.com/web/search/searchBrowseAction.html?method=searchProducts&searchTerm=422-371&x=24&y=15>
>
> from which page you can get the size. I don't know the Varta number.
>
> Dan
>
>

> ------------------------------------
>
> Yahoo! Groups Links
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>

1702. Re: Backup battery 2,4V how much mAh?

Yahoo group: Racal6790GM
Date: 2011-05-16 12:29:17 UTC
From: znww5
Topic: 1698 Message: 1702

Hans,

The one I used in several 1792's looks like this one e?ay. See item number: 250785799758.
It is a 2.4v 150mAh NiMh battery which fits well.

73 De David, G4IRQ

--- In Racal6790GM@yahoogroups.com, Hans Remeeus <hans@...> wrote:
>
>
> Thanks Dan! I will find one.
>
> The battery which is now in my RA1792 is the Varta 2/100 DKO:
> http://www.preissuchmaschine.de/preisvergleich/popup.asp?pid=736839488&pnr=1&foto=1
> The middle one on the photo.
>
>
>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
> http://www.hansremeeus.nl
> Communication is about people, the rest is technology.
>
>
>
> Op 15-5-2011 16:33, Dan Rae schreef:
> > On 5/15/2011 2:27 AM, Hans Remeeus wrote:
> >>
> >>
> >> Hello Group,
> >>
> >> I want to replace the backup battery of the Racal RA1792.
> >>
> >> I found Emmerich NiMH cells of 2,4 Volt.
> >>
> >> http://www2.conrad.nl/goto.php?artikel=251546
> >>
> >> How much mAh the battery must be; 80, 170, 230 or 300 mAh?
> >>
> >> Or does only the size matter?
> >>
> > Hans, in the later RA1792s the battery was NOT a round type and I don't
> > think the ones you show will fit very well, space is limited at the
> > bottom of the board.
> >

> > In the EU they are made by Varta and should be a lot easier to find than
> > here in the US.
> >
> > RS Components sell an equivalent:
> > http://uk.rs-online.com/web/search/searchBrowseAction.html?method=searchProducts&searc
hTerm=422-371&x=24&y=15
> > <http://uk.rs-online.com/web/search/searchBrowseAction.html?method=searchProducts&sear
chTerm=422-371&x=24&y=15>
> >
> > from which page you can get the size. I don't know the Varta number.
> >
> > Dan
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
>

1703. Re: [Racal6790GM] Re: Backup battery 2,4V how much mAh?

Yahoo group: Racal6790GM
Date: 2011-05-16 14:17:37 UTC
From: Hans Remeeus
Topic: 1698 Message: 1703

Hello David,

Thanks for the info! Looks fine.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 16-5-2011 14:29, znww5 schreef:
> Hans,
>
> The one I used in several 1792's looks like this one e?ay. See item number: 250785799758.
It is a 2.4v 150mAh NiMh battery which fits well.
>
> 73 De David, G4IRQ
>
>
>
> --- In Racal6790GM@yahoogroups.com, Hans Remeeus<hans@...> wrote:
>>
>> Thanks Dan! I will find one.
>>
>> The battery which is now in my RA1792 is the Varta 2/100 DKO:
>> http://www.preissuchmaschine.de/preisvergleich/popup.asp?pid=736839488&pnr=1&foto=1
>> The middle one on the photo.
>>
>>
>>
>> 73,
>> Hans Remeeus (PA1HR)
>> http://www.remeeus.eu
>> http://www.hansremeeus.nl
>> Communication is about people, the rest is technology.
>>
>>
>>
>> Op 15-5-2011 16:33, Dan Rae schreef:
>>> On 5/15/2011 2:27 AM, Hans Remeeus wrote:
>>>>
>>>> Hello Group,
>>>>
>>>> I want to replace the backup battery of the Racal RA1792.
>>>>
>>>> I found Emmerich NiMH cells of 2,4 Volt.

>>>>
>>>> http://www2.conrad.nl/goto.php?artikel=251546
>>>>
>>>> How much mAh the battery must be; 80, 170, 230 or 300 mAh?
>>>>
>>>> Or does only the size matter?
>>>>
>>> Hans, in the later RA1792s the battery was NOT a round type and I don't
>>> think the ones you show will fit very well, space is limited at the
>>> bottom of the board.
>>>
>>> In the EU they are made by Varta and should be a lot easier to find than
>>> here in the US.
>>>
>>> RS Components sell an equivalent:
>>> http://uk.rs-online.com/web/search/searchBrowseAction.html?method=searchProducts&searc
hTerm=422-371&x=24&y=15
>>> <http://uk.rs-online.com/web/search/searchBrowseAction.html?method=searchProducts&sear
chTerm=422-371&x=24&y=15>
>>>
>>> from which page you can get the size. I don't know the Varta number.
>>>
>>> Dan
>>>
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
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> Yahoo! Groups Links
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1704. Novice Question 09 BITE Code

Yahoo group: Racal6790GM
Date: 2011-05-18 03:27:46 UTC
From: Bill Hooker
Topic: 1704 Message: 1704

Having just acquired 6790/GM, I ran the self-test feature and received an 09 code. Looking at the manual it says too many sym. filters installed-check filters. Here's the silly question: What am I checking the filters for?

Thanks for your patience.

Bill

1705. Re: [Racal6790GM] Novice Question 09 BITE Code

Yahoo group: Racal6790GM
Date: 2011-05-18 09:25:15 UTC
From: gewingerd@netzero.com
Topic: 1704 Message: 1705
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1706. Re: [Racal6790GM] Novice Question 09 BITE Code

Yahoo group: Racal6790GM
Date: 2011-05-18 13:14:20 UTC
From: Bill Hooker
Topic: 1704 Message: 1706

Makes sense, thanks for your help. I am in the process of performing an internal inspection/cleaning and will check/re-arrange the filters.

Thanks for your help.

Bill

--- On Wed, 5/18/11, gewingerd@... <gewingerd@netzero.com> wrote:

From: gewingerd@... <gewingerd@...>
Subject: Re: [Racal6790GM] Novice Question 09 BITE Code
To: Racal6790GM@yahoogroups.com
Date: Wednesday, May 18, 2011, 4:25 AM

Bill,

The receiver during BITE test the filters that are installed, you can 5 standard filters and 2 side band filters only, this makes a total of 7, if 2 of the filters are not side band filters then you can only have a total of 5. Remove the top cover, remove the filter cover and check the filters. The one in the first slot closest to the power supply will be a ssb filter or a standard one that will be used for ssb when only 5 filters are installed.

Hope this helps a little.

Gary

Please note: message attached

From: Bill Hooker <bwh663@...>

To: Racal6790GM@yahoogroups.com

Subject: [Racal6790GM] Novice Question 09 BITE Code

Date: Tue, 17 May 2011 20:27:46 -0700 (PDT)

1707. Re: [Racal6790GM] Novice Question 09 BITE Code

Yahoo group: Racal6790GM
Date: 2011-05-18 16:53:27 UTC
From: Bill Hooker
Topic: 1704 Message: 1707

Thanks Gary, your input resolved the 09 BITE code issue. However, the deeper I get into this receiver, more questions are generated. Since the front data plate has been removed, how do you tell what version/mod one is looking at? Secondly, is there an article on refurbing the tuning assembly? Mine has a little more slack than I would prefer.

Thanks........Bill

--- On Wed, 5/18/11, Bill Hooker <bwh663@...> wrote:

From: Bill Hooker <bwh663@...>
Subject: Re: [Racal6790GM] Novice Question 09 BITE Code
To: Racal6790GM@yahoogroups.com
Date: Wednesday, May 18, 2011, 8:14 AM

Makes sense, thanks for your help. I am in the process of performing an internal inspection/cleaning and will check/re-arrange the filters.

Thanks for your help.

Bill

--- On Wed, 5/18/11, gewingerd@... <gewingerd@netzero.com> wrote:

From: gewingerd@... <gewingerd@...>
Subject: Re: [Racal6790GM] Novice Question 09 BITE Code
To: Racal6790GM@yahoogroups.com
Date: Wednesday, May 18, 2011, 4:25 AM

Bill,

The receiver during BITE test the filters that are installed, you can 5 standard filters and 2 side band filters only, this makes a total of 7, if 2 of the filters are not side band filters then you can only have a total of 5. Remove the top cover, remove the filter cover and check the filters. The one in the first slot closest to the power supply will be a ssb filter or a standard one that will be used for ssb when only 5 filters are installed.

Hope this helps a little.

Gary

Please note: message attached

From: Bill Hooker <bwh663@...>

To: Racal6790GM@yahoogroups.com

Subject: [Racal6790GM] Novice Question 09 BITE Code

Date: Tue, 17 May 2011 20:27:46 -0700 (PDT)

1708. Re: [Racal6790GM] Novice Question 09 BITE Code

Yahoo group: Racal6790GM
Date: 2011-05-19 09:11:11 UTC
From: gewingerd@netzero.com
Topic: 1704 Message: 1708
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1709. Re: [Racal6790GM] Where is the lamp board?

Yahoo group: Racal6790GM
Date: 2011-05-19 16:31:39 UTC
From: Hans Remeeus
Topic: 1677 Message: 1709

Hello Dan and Others,

Today I received the LED-strip and this is a great success!

Pro's:
It is very cheap; 3 euro.
The LED's will hold a very very long time; much longer than bulbs.
The LED's will not become hot.
The LED's drew just very little current.
The light coming from the LED's is very clear and pretty looking.
The LED-strip is very thin and therefore easy to find a good location
for mounting it.

You can mount the strip above the two LCD-display's or behind them, on
the top of the inside of the receiver. Above has the dis-advantage that
you see some dust on the LCD-display more clearly and behind the
dipslay's it looks a bit like sunrays. I did not decide yet which one of
the two mountings I will do. Afterwards I will take some photo's and
publish them in the group.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 14-5-2011 21:38, Dan Rae schreef:
> On 5/14/2011 12:15 PM, Hans Remeeus wrote:
>>
>>
>> Hello Dan,
>>
>> Thanks for the info and the picture.
>>
>> You gave me a very good idea. I found this:
>> http://www2.conrad.nl/goto.php?artikel=046170
>>
>> Perhaps this LED-strip is useful as illumination of the two displays.
>>
> Hans, I am not sure those would work. In the one I did I used sideways
> shining LEDs, not the ones that shine at right angles to the board, and
> even with eight of them on each side (and a series surface mount R)
> there is not a lot of illumination of the display. If you can get now
> white ones that are brighter that would be better, but they have to be a
> sideways firing type. The ones I used were no more than 2 MM thick and
> mounted on thin PC board material as well.

>
> The PC board strips are very easy to make with just slots cut in the
> copper, no need to etch.
>
> There is a very small gap to get these into.
>
> Dan
>
>
>
>
> ------------------------------------
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> Yahoo! Groups Links
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1710. Filter Configuration for Overall Reception

Yahoo group: Racal6790GM
Date: 2011-05-19 18:30:59 UTC
From: Bill Hooker
Topic: 1710 Message: 1710

I don't want to open a can of worms here, but if you could only have 7 filters in your 6790 and wanted to cover as much as possible, what would you invest in? I know this is a very subjective question, but I need a starting point until I get more experience with this receiver.

Thanks......Bill

1711. Re: [Racal6790GM] Filter Configuration for Overall Reception

Yahoo group: Racal6790GM
Date: 2011-05-19 18:36:38 UTC
From: gewingerd@netzero.com
Topic: 1710 Message: 1711
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1712. RA6790 filters

Yahoo group: Racal6790GM
Date: 2011-05-20 17:33:02 UTC
From: H Lawrence Serra
Topic: 1712 Message: 1712

Bill- Here is what Rob Sherwood recommends as a 400 Hz CW filter for the 6790:

http://www.inrad.net/product.php?productid=218&cat=58&page=1

73, Larry N6NC

1713. Re: [Racal6790GM] BITE Error message 99?

Yahoo group: Racal6790GM
Date: 2011-05-20 20:38:53 UTC
From: gewingerd@netzero.com
Topic: 1697 Message: 1713
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1714. Re: [Racal6790GM] BITE Error message 99?

Yahoo group: Racal6790GM
Date: 2011-05-20 20:49:38 UTC
From: gewingerd@netzero.com
Topic: 1697 Message: 1714
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1715. Remote control connections

Yahoo group: Racal6790GM
Date: 2011-06-06 10:21:26 UTC
From: rboute
Topic: 1715 Message: 1715

Here are a few questions for which some members might have answers. References to tables and figures pertain to "Section II - Installation" in the manual.
(A) Where can I find the mating connector (i.e., the cable part) for the A6A1 board? Such an item was posted a few days ago on Ebay, but I can't retrieve the URL.
(B) What are the RA6790 conventions for Ground, Signal Ground (table 2-3), Data Out Gnd. (table 2-5) and System Gnd. (Figure 2-11)?
(C) Referring to table 2-6 (baud rate selection), is 0 one of the above "grounds" and 1 open, or is the convention different?
(D) Referring to figure 2-11, is the receiver number assumed in BCD?
The purpose of all these questions is programming remote control in LabVIEW using RS232.
Regards,
Raymond

1716. RA3701 error help

Yahoo group: Racal6790GM
Date: 2011-06-06 14:33:30 UTC
From: vk5abc
Topic: 1716 Message: 1716

Hello All

I have finally started work on my RA3701 but I have come across a 204 error but I have no idea what it is? Can anyone here shed any light on this error number. I am also trying to find led replacements for the back lighting. What I have tried so far, works but not bright enough,
I have to find the right 12V led. Any comments would helpfull.

Best of 73's Lee.

1717. Re: [Racal6790GM] RA3701 error help

Yahoo group: Racal6790GM
Date: 2011-06-06 14:48:43 UTC
From: Phill Simmons
Topic: 1716 Message: 1717

Hi,

204 is the BFO reference level.
rgds,
Phill

From: vk5abc <vk5abc@...>
To: Racal6790GM@yahoogroups.com
Sent: Monday, 6 June, 2011 15:33:30
Subject: [Racal6790GM] RA3701 error help

Hello All

I have finally started work on my RA3701 but I have come across a 204 error but I have no idea what it is? Can anyone here shed any light on this error number. I am also trying to find led replacements for the back lighting. What I have tried so far, works but not bright enough,
I have to find the right 12V led. Any comments would helpfull.

Best of 73's Lee.

1718. Re: [Racal6790GM] RA3701 error help

Yahoo group: Racal6790GM
Date: 2011-06-06 15:05:00 UTC
From: Dan Rae
Topic: 1716 Message: 1718

On 6/6/2011 7:33 AM, vk5abc wrote:
> I am also trying to find led replacements for the back lighting. What I have tried so far, works but not bright enough,
> I have to find the right 12V led. Any comments would helpfull.
Most white LEDs expect around 3.6 Volts.

The back lighting for the 37xx series uses a pretty sophisticated pulse width modulated system for varying the brightness. I suspect unless you are going to re-design that part of the circuit you will have difficulty getting it to work properly with LEDs.

Long life incandescent bulbs of the correct type are available easily enough, at least in the US.

I am a big fan of LEDs but this is one case where I left well alone :^)

Dan

1719. Re: RA3701 error help

Yahoo group: Racal6790GM
Date: 2011-06-06 16:29:51 UTC
From: vk5abc
Topic: 1716 Message: 1719

Thanks, but I am not ready to give up yet, I have the circuit a JA ham scanned it for me, at least one page.

Lee

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 6/6/2011 7:33 AM, vk5abc wrote:
> > I am also trying to find led replacements for the back lighting. What I have tried so far, works but not bright enough,
> > I have to find the right 12V led. Any comments would helpfull.
> Most white LEDs expect around 3.6 Volts.
>
> The back lighting for the 37xx series uses a pretty sophisticated pulse
> width modulated system for varying the brightness. I suspect unless you
> are going to re-design that part of the circuit you will have difficulty
> getting it to work properly with LEDs.
>
> Long life incandescent bulbs of the correct type are available easily
> enough, at least in the US.
>
> I am a big fan of LEDs but this is one case where I left well alone :^)
>
> Dan
>

1720. Re: [Racal6790GM] Remote control connections

Yahoo group: Racal6790GM
Date: 2011-06-06 16:39:15 UTC
From: gewingerd@netzero.com
Topic: 1715 Message: 1720
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1721. Re: [Racal6790GM] Remote control connections [2 Attachments]

Yahoo group: Racal6790GM
Date: 2011-06-06 18:01:55 UTC
From: Tom Frobase
Topic: 1715 Message: 1721

Here is what I did:

I carefully removed the flat header that connects the rear connector to the A6A1 board. I then traced the connections from the external connector to the A6A1 board making the appropriate jumper connections on the board. Baud rate, parity, etc. A DB-9 connector will fit inside of the hole provided for the original connector without modification of the unit. I extended 2, 3 and 7 to the DB-9.

I did need to add a couple of ferrite filters to the wires connecting the DB-9 in the radio, when my software was polling I could hear a slight bit of interference when no signal was present.DB-9.

I kept the original header intact for the next owner of the radio, cheap fix! ... tom, N3LLL

On Mon, Jun 6, 2011 at 11:39 AM, gewingerd@... <
gewingerd@...> wrote:

>
> [Attachment(s)<https://mail.google.com/mail/?ui=2&view=js&name=main,tlist&ver=TzWrcfWOfMA.en.&am=!Vc_JqYlUIXy7Qv3hQuM-IofXrzMwiyltfSDvk4NTfJWtIYUk4rcCLNYy7KA&fri#13065d352c4cad05_TopText>from
> gewingerd@... included below]
>
> Raymond,
>
> This may help see attached.
>
> Gary
>
> Please note: message attached
>
> From: "rboute" <Raymond.Boute@...>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Remote control connections
> Date: Mon, 06 Jun 2011 10:21:26 -0000
>
>
>
>
> ---------- Forwarded message ----------
> From: "rboute" <Raymond.Boute@...>
> To: Racal6790GM@yahoogroups.com
> Date: Mon, 06 Jun 2011 10:21:26 -0000
> Subject: [Racal6790GM] Remote control connections

>
>
> Here are a few questions for which some members might have answers.
> References to tables and figures pertain to "Section II - Installation" in
> the manual.
> (A) Where can I find the mating connector (i.e., the cable part) for the
> A6A1 board? Such an item was posted a few days ago on Ebay, but I can't
> retrieve the URL.
> (B) What are the RA6790 conventions for Ground, Signal Ground (table 2-3),
> Data Out Gnd. (table 2-5) and System Gnd. (Figure 2-11)?
> (C) Referring to table 2-6 (baud rate selection), is 0 one of the above
> "grounds" and 1 open, or is the convention different?
> (D) Referring to figure 2-11, is the receiver number assumed in BCD?
> The purpose of all these questions is programming remote control in LabVIEW
> using RS232.
> Regards,
> Raymond
>
>
>

1722. Re: RA3701 error help

Yahoo group: Racal6790GM
Date: 2011-06-07 18:42:49 UTC
From: vk5abc
Topic: 1716 Message: 1722

I was thinking about a yellow or green led and kingbright have what they call a resistor led which according to their catalog are available in 5v 12v or 14v with 40deg viewing angle
Lee

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 6/6/2011 7:33 AM, vk5abc wrote:
> > I am also trying to find led replacements for the back lighting. What I have tried so far, works but not bright enough,
> > I have to find the right 12V led. Any comments would helpfull.
> Most white LEDs expect around 3.6 Volts.
>
> The back lighting for the 37xx series uses a pretty sophisticated pulse
> width modulated system for varying the brightness. I suspect unless you
> are going to re-design that part of the circuit you will have difficulty
> getting it to work properly with LEDs.
>
> Long life incandescent bulbs of the correct type are available easily
> enough, at least in the US.
>
> I am a big fan of LEDs but this is one case where I left well alone :^)
>
> Dan
>

1723. Re: RA3701 error help

Yahoo group: Racal6790GM
Date: 2011-06-07 18:49:43 UTC
From: vk5abc
Topic: 1716 Message: 1723

Thanks for that, I managed to tune the receiver to local AM broadcast station but the audio output is on the low side.
Can you explain some more detail about the 204 error ?

--- In Racal6790GM@yahoogroups.com, Phill Simmons <phill.simmons@...> wrote:
>
> Hi,
>
> 204 is the BFO reference level.
> rgds,
> Phill
>
>
>
>
> _____
> From: vk5abc <vk5abc@...>
> To: Racal6790GM@yahoogroups.com
> Sent: Monday, 6 June, 2011 15:33:30
> Subject: [Racal6790GM] RA3701 error help
>
> Â
> Hello All
>
> I have finally started work on my RA3701 but I have come across a 204 error but
> I have no idea what it is? Can anyone here shed any light on this error number.
> I am also trying to find led replacements for the back lighting. What I have
> tried so far, works but not bright enough,
> I have to find the right 12V led. Any comments would helpfull.
>
> Best of 73's Lee.
>

1724. Re: [Racal6790GM] Re: RA3701 error help

Yahoo group: Racal6790GM
Date: 2011-06-07 20:14:09 UTC
From: Phill Simmons
Topic: 1716 Message: 1724
Attachments: 1 described; binary payloads are missing from this source WARC

Hi,

I have scanned the page from the manual that details the BFO reference
adjustment procedure.
It is attached. I recommend that you check that the output level is correct.

Rgds,
Phill

From: vk5abc <vk5abc@...>
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, 7 June, 2011 19:49:43
Subject: [Racal6790GM] Re: RA3701 error help

Thanks for that, I managed to tune the receiver to local AM broadcast station
but the audio output is on the low side.
Can you explain some more detail about the 204 error ?

--- In Racal6790GM@yahoogroups.com, Phill Simmons <phill.simmons@...> wrote:
>
> Hi,
>
> 204 is the BFO reference level.
> rgds,
> Phill
>
>
>
>
> ---
> From: vk5abc <vk5abc@...>
> To: Racal6790GM@yahoogroups.com
> Sent: Monday, 6 June, 2011 15:33:30
> Subject: [Racal6790GM] RA3701 error help
>
> Â
> Hello All
>
> I have finally started work on my RA3701 but I have come across a 204 error but
>
> I have no idea what it is? Can anyone here shed any light on this error number.
>
> I am also trying to find led replacements for the back lighting. What I have
> tried so far, works but not bright enough,

> I have to find the right 12V led. Any comments would helpfull.
>
> Best of 73's Lee.
>

1725. Re: RA3701 error help

Yahoo group: Racal6790GM
Date: 2011-06-08 00:06:54 UTC
From: vk5abc
Topic: 1716 Message: 1725

Thanks for that but I think I would need a module extender which I don't have. any ideas?

--- In Racal6790GM@yahoogroups.com, Phill Simmons <phill.simmons@...> wrote:
>
> Hi,
>
> I have scanned the page from the manual that details the BFO reference
> adjustment procedure.
> It is attached. I recommend that you check that the output level is correct.
>
> Rgds,
> Phill
>
>
>
>
> _____
> From: vk5abc <vk5abc@...>
> To: Racal6790GM@yahoogroups.com
> Sent: Tuesday, 7 June, 2011 19:49:43
> Subject: [Racal6790GM] Re: RA3701 error help
>
> Â
> Thanks for that, I managed to tune the receiver to local AM broadcast station
> but the audio output is on the low side.
> Can you explain some more detail about the 204 error ?
>
> --- In Racal6790GM@yahoogroups.com, Phill Simmons <phill.simmons@> wrote:
> >
> > Hi,
> >
> > 204 is the BFO reference level.
> > rgds,
> > Phill
> >
> >
> >
> >
> > _____
> > From: vk5abc <vk5abc@>
> > To: Racal6790GM@yahoogroups.com
> > Sent: Monday, 6 June, 2011 15:33:30
> > Subject: [Racal6790GM] RA3701 error help
> >

> > Ã□Â
> > Hello All
> >
> > I have finally started work on my RA3701 but I have come across a 204 error but
> >
> > I have no idea what it is? Can anyone here shed any light on this error number.
> >
> > I am also trying to find led replacements for the back lighting. What I have
> > tried so far, works but not bright enough,
> > I have to find the right 12V led. Any comments would helpfull.
> >
> > Best of 73's Lee.
> >
>

1726. Re: [Racal6790GM] Re: RA3701 error help

Yahoo group: Racal6790GM
Date: 2011-06-08 04:43:08 UTC
From: Phill Simmons
Topic: 1716 Message: 1726

Hi,

No I don't have one myself.
Is it possible to make one, or so some sort of temporary connector,
Rgds,
Phill

_____
From: vk5abc <vk5abc@...>
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, 8 June, 2011 1:06:54
Subject: [Racal6790GM] Re: RA3701 error help

Thanks for that but I think I would need a module extender which I don't have.
any ideas?

--- In Racal6790GM@yahoogroups.com, Phill Simmons <phill.simmons@...> wrote:
>
> Hi,
>
> I have scanned the page from the manual that details the BFO reference
> adjustment procedure.
> It is attached. I recommend that you check that the output level is correct.
>
> Rgds,
> Phill
>
>
>
>
> _____
> From: vk5abc <vk5abc@...>
> To: Racal6790GM@yahoogroups.com
> Sent: Tuesday, 7 June, 2011 19:49:43
> Subject: [Racal6790GM] Re: RA3701 error help
>
> Â
> Thanks for that, I managed to tune the receiver to local AM broadcast station
> but the audio output is on the low side.
> Can you explain some more detail about the 204 error ?
>
> --- In Racal6790GM@yahoogroups.com, Phill Simmons <phill.simmons@> wrote:
> >
> > Hi,
> >
> > 204 is the BFO reference level.

> > rgds,
> > Phill
> >
> >
> >
> >
> > _____
> > From: vk5abc <vk5abc@>
> > To: Racal6790GM@yahoogroups.com
> > Sent: Monday, 6 June, 2011 15:33:30
> > Subject: [Racal6790GM] RA3701 error help
> >
> > Ã‚Â
> > Hello All
> >
> > I have finally started work on my RA3701 but I have come across a 204 error
>but
>
> >
> > I have no idea what it is? Can anyone here shed any light on this error
>number.
>
> >
> > I am also trying to find led replacements for the back lighting. What I have

> > tried so far, works but not bright enough,
> > I have to find the right 12V led. Any comments would helpfull.
> >
> > Best of 73's Lee.
> >
>

1727. RA-3701 module extenders

Yahoo group: Racal6790GM
Date: 2011-06-08 09:14:10 UTC
From: vk5abc
Topic: 1727 Message: 1727

Hello All

Does anyone here know anything the test fixtures that are used to service the RA-3701 receiver. What connector do the modules have, so perhaps I can replicate a module extender or what ever they are called.

Thanks in advance for any help.

73's Lee

1728. Info Needed

Yahoo group: Racal6790GM
Date: 2011-06-08 14:12:56 UTC
From: WalterT
Topic: 1728 Message: 1728

As a newbie to Racals (used to see them in comm security spaces in USN and NSA but never worked with them as I was an analysist, not an opr).
Anyway, I recently picked up a 6790GM at a good price ($25 but it doesn't work). Was told it had problems in the voltage regulator and the display didn't work. Plugged it in, flash & puff of smoke from beneath the back-right corner of the board and fuse blew. Other than that, its in excellent physical condition.
Now comes decision time.
Should I sell it, as is, for a "hangar queen" (it has 5 mechanical filters in it)? I've noticed such inop ones going for parts for $300-400 on eBay (not a bad mark-up from $25)
I'm leaning towards, from all the good reviews I've read online lately, to get it fixed. That way if I peddle it, it should be worth a lot more but -- this is the dangerous part -- I might fall in love with it and dump my R-390A.
If deciding to get it fixed, can anyone suggest a shop or individual that is capable of doing the job properly. Does anyone have a vague guess what the problem might be (from the above description) and a vague idea of repair costs?
Mainly, I guess what I need is the name/email/phone of a shop or person that I can discuss this with.
Tks for any advice/assistance
73
Walt (N4GL)

1729. Re: [Racal6790GM] Info Needed

Yahoo group: Racal6790GM
Date: 2011-06-08 15:53:39 UTC
From: support
Topic: 1728 Message: 1729

Walter:

The BEST man in the universe to fix it is the original designer, Gary Winger. Gary has all the manuals, and parts needed to fully restore your receiver. I've had him re-do 3 for me so far, and they work beautifully! And his price is right!

He can be reached at:
gewingerd@...

Best of luck,
bill craig

********** REPLY SEPARATOR **********

On 6/8/11 at 2:12 PM WalterT wrote:
As a newbie to Racals (used to see them in comm security spaces in USN and NSA but never worked with them as I was an analysist, not an opr).
Anyway, I recently picked up a 6790GM at a good price ($25 but it doesn't work). Was told it had problems in the voltage regulator and the display didn't work. Plugged it in, flash & puff of smoke from beneath the back-right corner of the board and fuse blew. Other than that, its in excellent physical condition.
Now comes decision time.
Should I sell it, as is, for a "hangar queen" (it has 5 mechanical filters in it)? I've noticed such inop ones going for parts for $300-400 on eBay (not a bad mark-up from $25)
I'm leaning towards, from all the good reviews I've read online lately, to get it fixed. That way if I peddle it, it should be worth a lot more but -- this is the dangerous part -- I might fall in love with it and dump my R-390A.
If deciding to get it fixed, can anyone suggest a shop or individual that is capable of doing the job properly. Does anyone have a vague guess what the problem might be (from the above description) and a vague idea of repair costs?
Mainly, I guess what I need is the name/email/phone of a shop or person that I can discuss this with.
Tks for any advice/assistance
73
Walt (N4GL)

1730. Re: [Racal6790GM] Info Needed

Yahoo group: Racal6790GM
Date: 2011-06-08 14:19:02 UTC
From: Frank Hoffman
Topic: 1728 Message: 1730

Gary Wingerd is your man. He is a former Racal technician who know all
about them and does repairs. his email is gewingerd@...
You got it for a steal.......
I have one I'll be sending him myself.

Regards, FH

On Wed, Jun 8, 2011 at 9:12 AM, WalterT <sjotrollet@...> wrote:
> As a newbie to Racals (used to see them in comm security spaces in USN and NSA but never worked with them as I was an analysist, not an opr).
> Anyway, I recently picked up a 6790GM at a good price ($25 but it doesn't work). Was told it had problems in the voltage regulator and the display didn't work. Plugged it in, flash & puff of smoke from beneath the back-right corner of the board and fuse blew. Other than that, its in excellent physical condition.
> Now comes decision time.
> Should I sell it, as is, for a "hangar queen" (it has 5 mechanical filters in it)? I've noticed such inop ones going for parts for $300-400 on eBay (not a bad mark-up from $25)
> I'm leaning towards, from all the good reviews I've read online lately, to get it fixed. That way if I peddle it, it should be worth a lot more but -- this is the dangerous part -- I might fall in love with it and dump my R-390A.
> If deciding to get it fixed, can anyone suggest a shop or individual that is capable of doing the job properly. Does anyone have a vague guess what the problem might be (from the above description) and a vague idea of repair costs?
> Mainly, I guess what I need is the name/email/phone of a shop or person that I can discuss this with.
> Tks for any advice/assistance
> 73
> Walt (N4GL)
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Frank Hoffman, PE
frankh1067@...
Cell 612-202-5817

1731. Re: Info Needed

Yahoo group: Racal6790GM
Date: 2011-06-08 22:33:40 UTC
From: momnpear
Topic: 1728 Message: 1731

Walt, My engineer friend has done a LOT with these models and I am forwarding his respnse:
Walt,
Don't have access to the RACAL group but a friend passed on your posting.
Repaired a couple that were real basket cases a while ago, and before
sending it out to be repaired I'd suggest checking the caps.

There are quite a few in this radio but almost all of the failures I saw were those
on the +/- 15 volt supplies. There are small tantalum bulley caps (1 uF ?) in the
power supply that fail with sparks and flames. Pull the cover and see if they
are bad.

Disconnect each board and measure the +/- 15 volt supply. If you find a dead short,
start checking caps on that board. On most boards there are small inductors
in each supply. If a cap has failed (shorted) on that supply, the inductor is
often open and needs to be replaced.

A little time doing what I suggest will save you a BIG repair bill. Hopefully
your LCD's and keyboards are OK. Have you looked for battery damage
on the CPU board (U6)? Thats the most common RACAL killer.

The RACAL has *nothing* over the R-390 (or the A version) IMO. The RACAL is
an interesting design that has some advantages but not that many.
Steve W6SSP
p.s.-do not tackle this beast without the manual and schematics!

--- In Racal6790GM@yahoogroups.com, "WalterT" <sjotrollet@...> wrote:
>
> As a newbie to Racals (used to see them in comm security spaces in USN and NSA but never worked with them as I was an analysist, not an opr).
> Anyway, I recently picked up a 6790GM at a good price ($25 but it doesn't work). Was told it had problems in the voltage regulator and the display didn't work. Plugged it in, flash & puff of smoke from beneath the back-right corner of the board and fuse blew. Other than that, its in excellent physical condition.
> Now comes decision time.
> Should I sell it, as is, for a "hangar queen" (it has 5 mechanical filters in it)? I've noticed such inop ones going for parts for $300-400 on eBay (not a bad mark-up from $25)
> I'm leaning towards, from all the good reviews I've read online lately, to get it fixed. That way if I peddle it, it should be worth a lot more but -- this is the dangerous part -- I might fall in love with it and dump my R-390A.
> If deciding to get it fixed, can anyone suggest a shop or individual that is capable of doing the job properly. Does anyone have a vague guess what the problem might be (from the above description) and a vague idea of repair costs?
> Mainly, I guess what I need is the name/email/phone of a shop or person that I can discuss this with.
> Tks for any advice/assistance
> 73

> Walt (N4GL)
>

1732. A8 Board

Yahoo group: Racal6790GM
Date: 2011-06-13 22:24:07 UTC
From: KR4HV
Topic: 1732 Message: 1732

One of my 6790s fails to successfully complete the bite test. The frequency display rocks back and forth between 08.08000 and 08.58000. At that point, if try a reset with lock & AM the freq. display shows 04. I assume that means a bad A8 board.

I was about to send it to Gary Wingerd for an alignment and then it went out of lock yesterday.

Any suggestions for anyplace to start on the A8 board to try to fix? I also have access to another A8 but it has the 02 error code.

At this point, I don't want to take the good board out of my other 6790 and put in this "new" (to me) one.

Thanks,

Walt

1733. Re: [Racal6790GM] A8 Board

Yahoo group: Racal6790GM
Date: 2011-06-14 16:11:22 UTC
From: gewingerd@netzero.com
Topic: 1732 Message: 1733
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1734. RE: [Racal6790GM] A8 Board [1 Attachment]

Yahoo group: Racal6790GM
Date: 2011-06-14 19:01:54 UTC
From: KR4HV
Topic: 1732 Message: 1734

Thanks Gary. I have about come to the conclusion that the A6A2 board has one or more problems. I am fairly confident that the A7 and A8 boards are working.

The problem is that now it won't tune at all. At power up everything (all the writing) in the status display is visible and the frequency display shows all zeros even the bfo digits are zeros. It does not run the BITE check and the freq. and bfo are not tunable. No buttons do anything.

I do get white noise from the speaker.

TP8 is at 6.003vdc and TP5 is at 5.202 vdc

I have a friend that has a spare set of chips from a A6A2 and he is going to send them to me. I'll try them before I ship it off.

I thank everyone for all the help.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of gewingerd@...
Sent: Tuesday, June 14, 2011 12:11 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] A8 Board [1 Attachment]

[Attachment(s) from gewingerd@... included below]

Walt,

Tune the radio to 0 on the front panel, put the receiver in CW BFO variable and tune the BFO up and down and listen to the audio out. If the output skips then the A8 is bad, if it is smooth then the problem may be elsewhere. You can also do the same thing with the A7 card by tuning the frequency of the receiver in CW mode and see if the audio is smooth or skips.

The A8 gives you 1,5 or 10 MHz output on the rear of the receiver, 455 KHz (+/- 8 KHZ) to the A4 card, 1 MHz reference to the A7 card, 40 MHz output to the A2 card and has the OOL circuit to the A6A2 card.

I have attached a file that might help.

Thanks,
Gary

Please note: message attached

From: "KR4HV" <kr4hv@... <mailto:kr4hv%40numail.org> >
To: <Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com> >
Subject: [Racal6790GM] A8 Board

Date: Mon, 13 Jun 2011 18:24:07 -0400

1735. RE: [Racal6790GM] A8 Board [1 Attachment]

Yahoo group: Racal6790GM
Date: 2011-06-14 19:05:52 UTC
From: KR4HV
Topic: 1732 Message: 1735

Thanks also for the file Gary. I just read it.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of gewingerd@...
Sent: Tuesday, June 14, 2011 12:11 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] A8 Board [1 Attachment]

[Attachment(s) from gewingerd@... included below]

Walt,

Tune the radio to 0 on the front panel, put the receiver in CW BFO variable and tune the BFO up and down and listen to the audio out. If the output skips then the A8 is bad, if it is smooth then the problem may be elsewhere. You can also do the same thing with the A7 card by tuning the frequency of the receiver in CW mode and see if the audio is smooth or skips.

The A8 gives you 1,5 or 10 MHz output on the rear of the receiver, 455 KHz (+/- 8 KHZ) to the A4 card, 1 MHz reference to the A7 card, 40 MHz output to the A2 card and has the OOL circuit to the A6A2 card.

I have attached a file that might help.

Thanks,
Gary

Please note: message attached

From: "KR4HV" <kr4hv@... <mailto:kr4hv%40numail.org> >
To: <Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com> >
Subject: [Racal6790GM] A8 Board
Date: Mon, 13 Jun 2011 18:24:07 -0400

1736. RE: [Racal6790GM] A8 Board [1 Attachment]

Yahoo group: Racal6790GM
Date: 2011-06-14 23:16:12 UTC
From: KR4HV
Topic: 1732 Message: 1736

I have found some issues with the A6A2 board. First I cleaned some corrosion from the IC sockets on U7 & U8. Made sure the BT1 gnd is correct through the board. reseated the ICs.

Here are the voltages on some suspect ICs - U1 -p3 - 2.32v; p4-5vOK; U7 & U8- 5v on several of the pins; U14- P21- 1.78v & P24-0.16v; all the rest are per the chart.

I am just getting in to looking at why the voltages may be off but probably is a IC issue.. PS checked Ok.

With all boards but the A6A2, front panel and PS disconnected I still get all zeros in the freq display and 2 zeros in the mode display sometimes and other function words randomly when cycling the power switch. R2 is good at 39K

More to go.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of gewingerd@...
Sent: Tuesday, June 14, 2011 12:11 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] A8 Board [1 Attachment]

[Attachment(s) from gewingerd@... included below]

Walt,

Tune the radio to 0 on the front panel, put the receiver in CW BFO variable and tune the BFO up and down and listen to the audio out. If the output skips then the A8 is bad, if it is smooth then the problem may be elsewhere. You can also do the same thing with the A7 card by tuning the frequency of the receiver in CW mode and see if the audio is smooth or skips.

The A8 gives you 1,5 or 10 MHz output on the rear of the receiver, 455 KHz (+/- 8 KHZ) to the A4 card, 1 MHz reference to the A7 card, 40 MHz output to the A2 card and has the OOL circuit to the A6A2 card.

I have attached a file that might help.

Thanks,
Gary

Please note: message attached

From: "KR4HV" <kr4hv@... <mailto:kr4hv%40numail.org> >
To: <Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com> >
Subject: [Racal6790GM] A8 Board

Date: Mon, 13 Jun 2011 18:24:07 -0400

1737. Backup battery, display lights and FET's in Hi-Level Mixer

Yahoo group: Racal6790GM
Date: 2011-06-15 11:47:27 UTC
From: Hans Remeeus
Topic: 1737 Message: 1737

Hello group,

Yesterday I replaced the backup battery of my Racal RA1792. It was very easy to do. I used the Emmerich NiMH Knopfzelle 2.4V 170MaH SLF. This battery costs only 4 Euro and fitted excellent and exactly on the microprocessor board.

To light the two displays I used a (330 mm 12V warm white)LED-strip for only 3 Euro. It looks a bit like sunstreams, but it much better than without any lights.

Do you know about replacing the two FET's in the Hi-Level Mixer in the Frontend of the receiver? They must have a noisefactor of 7 (or 11, when the RF Frontend is switched off).

--
73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

1738. Re: [Racal6790GM] Backup battery, display lights and FET's in Hi-Level Mixer

Yahoo group: Racal6790GM
Date: 2011-06-15 13:19:25 UTC
From: Dan Rae
Topic: 1737 Message: 1738

On 6/15/2011 4:47 AM, Hans Remeeus wrote:
>
>
>
>
>
> Do you know about replacing the two FET's in the Hi-Level Mixer in the
> Frontend of the receiver? They must have a noisefactor of 7 (or 11,
> when the RF Frontend is switched off).
>
>
Hans, the FETs used in the '92 were a matched quad from Philips, that is four not two. If you can't get those in the Netherlands and match them, a good replacement is the SD5000 integrated quad FET which Racal used in the later receivers. This can be found for around $5 in the US.

73, Dan

1739. Re: [Racal6790GM] Backup battery, display lights and FET's in Hi-Level Mixer

Yahoo group: Racal6790GM
Date: 2011-06-15 14:55:44 UTC
From: Hans Remeeus
Topic: 1737 Message: 1739

Thanks Dan! I will try to find the right matched quad.

Do you know if it is difficult to replace them?

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 15-6-2011 15:19, Dan Rae schreef:
> On 6/15/2011 4:47 AM, Hans Remeeus wrote:
>>
>>
>>
>>
>> Do you know about replacing the two FET's in the Hi-Level Mixer in the
>> Frontend of the receiver? They must have a noisefactor of 7 (or 11,
>> when the RF Frontend is switched off).
>>
>>
> Hans, the FETs used in the '92 were a matched quad from Philips, that is
> four not two. If you can't get those in the Netherlands and match them,
> a good replacement is the SD5000 integrated quad FET which Racal used in
> the later receivers. This can be found for around $5 in the US.
>
> 73, Dan
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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1740. Re: FET's in Hi-Level Mixer

Yahoo group: Racal6790GM
Date: 2011-06-15 15:28:52 UTC
From: jst5000can
Topic: 1737 Message: 1740

Hi,

A few questions about the mixer:
How accurately do these FET's need to be matched and how would one match them?
Can this be done with a curve tracer or is the matching done with RF parameters?
Is the SD5000 quad chip available?

73,
John VE3PCN

--- In Racal6790GM@yahoogroups.com, Hans Remeeus <hans@...> wrote:
>
>
> Thanks Dan! I will try to find the right matched quad.
>
> Do you know if it is difficult to replace them?
>
>
> 73,
> Hans Remeeus (PA1HR)
> http://www.remeeus.eu
> http://www.hansremeeus.nl
> Communication is about people, the rest is technology.
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>
> Op 15-6-2011 15:19, Dan Rae schreef:
> > On 6/15/2011 4:47 AM, Hans Remeeus wrote:
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> >> Frontend of the receiver? They must have a noisefactor of 7 (or 11,
> >> when the RF Frontend is switched off).
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> > Hans, the FETs used in the '92 were a matched quad from Philips, that is
> > four not two. If you can't get those in the Netherlands and match them,
> > a good replacement is the SD5000 integrated quad FET which Racal used in
> > the later receivers. This can be found for around $5 in the US.
> >
> > 73, Dan
> >
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> > ------------------------------------

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> > Yahoo! Groups Links
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1741. RE: [Racal6790GM] Re: FET's in Hi-Level Mixer

Yahoo group: Racal6790GM
Date: 2011-06-15 16:03:31 UTC
From: Carcia, Francis A HS
Topic: 1737 Message: 1741

Gary W. Has a kit that adds a small board with a SD5000 which drops into the mixer box. My RA6830 uses the SD5000 and works very well.

I’m thinking the match isn’t super critical due to the high level of gate drive. Frank WA1GFZ

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of jst5000can
Sent: Wednesday, June 15, 2011 11:29 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: FET's in Hi-Level Mixer

Hi,

A few questions about the mixer:
How accurately do these FET's need to be matched and how would one match them?
Can this be done with a curve tracer or is the matching done with RF parameters?
Is the SD5000 quad chip available?

73,
John VE3PCN

--- In Racal6790GM@...m <mailto:Racal6790GM%40yahoogroups.com> , Hans Remeeus <hans@...> wrote:
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>
> Thanks Dan! I will try to find the right matched quad.
>
> Do you know if it is difficult to replace them?
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> >> when the RF Frontend is switched off).
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> > Hans, the FETs used in the '92 were a matched quad from Philips, that is
> > four not two. If you can't get those in the Netherlands and match them,
> > a good replacement is the SD5000 integrated quad FET which Racal used in
> > the later receivers. This can be found for around $5 in the US.
> >
> > 73, Dan
> >
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> > ------------------------------------
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> > Yahoo! Groups Links
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1742. RE: [Racal6790GM] Re: FET's in Hi-Level Mixer

Yahoo group: Racal6790GM
Date: 2011-06-15 16:22:19 UTC
From: gewingerd@netzero.com
Topic: 1737 Message: 1742
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1743. Re: [Racal6790GM] Backup battery, display lights and FET's in Hi-Level Mixer

Yahoo group: Racal6790GM
Date: 2011-06-15 16:36:23 UTC
From: Dan Rae
Topic: 1737 Message: 1743

On 6/15/2011 7:55 AM, Hans Remeeus wrote:
>
>
>
> Thanks Dan! I will try to find the right matched quad.
Why do you think you need them?
>
> Do you know if it is difficult to replace them?
>
It is simply replacing four transistors in the 1792, not that difficult. The mixer is not in a sealed box like the US Racals, and new BSV81s will each come with a thing round the four wires to protect them against static damage to which they are very prone which should not be removed until they are all in place.

I think the question of how to match them is academic since they will be impossible to find new anyway.

The SD5000 is much easier to find and has intrinsic protection diodes. I have not looked for any recently, but last time I found a supply around $5 each here in the US; it has been my preferred replacement for all the Racal mixers for years, can be fitted into any of them from the 1772 onwards, including the GM box, "dead bug" style. They should be available in the EU since they were used a lot by R und S among others.

73

Dan

1744. Re: [Racal6790GM] Backup battery, display lights and FET's in Hi-Level Mixer

Yahoo group: Racal6790GM
Date: 2011-06-15 18:07:52 UTC
From: gewingerd@netzero.com
Topic: 1737 Message: 1744
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1745. Re: [Racal6790GM] Backup battery, display lights and FET's in Hi-Level Mixer

Yahoo group: Racal6790GM
Date: 2011-06-16 06:16:19 UTC
From: Hans Remeeus
Topic: 1737 Message: 1745

Hello Dan,

Thanks very much for your answer and suggestions!

Well, a former collegue (also HAM) who was one of the technicians of
Scheveningen Radio PCH, where the Racal RA1792 has done good work,
advised me to replace the FET's. At that time he serviced all the
receivers of our coaststation.

I will have a look for them at the HAMtronic in Friedrichshafen next week.

73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 15-6-2011 18:36, Dan Rae schreef:
> On 6/15/2011 7:55 AM, Hans Remeeus wrote:
>>
>>
>> Thanks Dan! I will try to find the right matched quad.
> Why do you think you need them?
>> Do you know if it is difficult to replace them?
>>
> It is simply replacing four transistors in the 1792, not that
> difficult. The mixer is not in a sealed box like the US Racals, and
> new BSV81s will each come with a thing round the four wires to protect
> them against static damage to which they are very prone which should not
> be removed until they are all in place.
>
> I think the question of how to match them is academic since they will be
> impossible to find new anyway.
>
> The SD5000 is much easier to find and has intrinsic protection diodes.
> I have not looked for any recently, but last time I found a supply
> around $5 each here in the US; it has been my preferred replacement for
> all the Racal mixers for years, can be fitted into any of them from the
> 1772 onwards, including the GM box, "dead bug" style. They should be
> available in the EU since they were used a lot by R und S among others.
>
> 73
>
> Dan
>

>
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> ------------------------------------
>
> Yahoo! Groups Links
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1746. TenTec Noise Blanker for Racal RA1792

Yahoo group: Racal6790GM
Date: 2011-06-16 10:58:35 UTC
From: Hans Remeeus
Topic: 1746 Message: 1746

Hello group,

My RA1792 is going into the direction of 'nearly perfect', hi!

I need a very good noise blanker, because we have a lot of fence wire in
our neighbourhood.

Has one of you experience with this kind of noise blanker, which
hopefully can be used in the RA1792?: http://www.tentec.com/index.php?id=366

--
73,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

1747. Re: [Racal6790GM] Backup battery, display lights and FET's in Hi-Level Mixer

Yahoo group: Racal6790GM
Date: 2011-06-16 13:31:54 UTC
From: Dan Rae
Topic: 1737 Message: 1747

On 6/15/2011 11:16 PM, Hans Remeeus wrote:
>
>
>
> Well, a former collegue (also HAM) who was one of the technicians of
> Scheveningen Radio PCH, where the Racal RA1792 has done good work,
> advised me to replace the FET's. At that time he serviced all the
> receivers of our coaststation.
>
Hans, I'm sorry to disagree with your colleague, but I don't think there
is /any/ reason to replace the Mixer FETs unless one or more has died.

The symptoms of that will be pretty obvious: lack of gain and on the
medium wave broadcast band you will hear cross modulation on many stations.

I have Racals with more than thirty year old FETs in the mixers that
work as well as new. Electrolytic capacitors, now that is another
story. Mind you, if Gary tested 100,000 FETs they must have thought
they needed a few spares in the US :^)

Dan

1748. Re: [Racal6790GM] Backup battery, display lights and FET's in Hi-Level Mixer

Yahoo group: Racal6790GM
Date: 2011-06-16 19:46:07 UTC
From: Hans Remeeus
Topic: 1737 Message: 1748

Hello Dan,

Thanks again for all your kind and interesting remarks!

I have no problems with my RA1792. So no need to replace the FET's.

Life is easier than we sometimes think it is...

73!
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 16-6-2011 15:31, Dan Rae schreef:
> On 6/15/2011 11:16 PM, Hans Remeeus wrote:
>>
>>
>> Well, a former collegue (also HAM) who was one of the technicians of
>> Scheveningen Radio PCH, where the Racal RA1792 has done good work,
>> advised me to replace the FET's. At that time he serviced all the
>> receivers of our coaststation.
>>
> Hans, I'm sorry to disagree with your colleague, but I don't think there
> is /any/ reason to replace the Mixer FETs unless one or more has died.
>
> The symptoms of that will be pretty obvious: lack of gain and on the
> medium wave broadcast band you will hear cross modulation on many stations.
>
> I have Racals with more than thirty year old FETs in the mixers that
> work as well as new. Electrolytic capacitors, now that is another
> story. Mind you, if Gary tested 100,000 FETs they must have thought
> they needed a few spares in the US :^)
>
> Dan
>
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> Yahoo! Groups Links
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1749. Re: A08912 circuit board

Yahoo group: Racal6790GM
Date: 2011-06-30 16:56:26 UTC
From: jgraham1865
Topic: 1536 Message: 1749

Rowland,

A bit late in replying - just joined the group and started browsing!

I have an A08912 card too; it is an A14 IF converter card.
Its IF output can be programmed using the DIP switches from 5kHz to 100kHz in 5kHz increments using a PLL & divider chain with a reference frequency from the A8 board. The coil on the A14 board must be adjusted whenever the switch settings have been changed, otherwise the PLL will not lock.
There may be a lot of empty locations on the left of the board if it's not configured for ISB.
A couple of resistors and a capacitor will have been added on the A8 card to provide the required 20MHz output via A8J8. On the A4 card, the 100R resistor in the 5V feed to the A5/A14 connector will have been replaced either with a link or with a 10uH inductor - if not, you get about 2.5V on the A14 card's 5V rail because of its current draw....
Setting the card up for [e.g.] a 10kHz or 15kHz output can be useful if you want to connect to a sound card for SDR.

hope this helps,

John G.

--- In Racal6790GM@yahoogroups.com, "upnorthbookworm" <upnorthbookworm@...> wrote:
>
> Looking at the top view of my 6790/gm, there is a circuit board in the position where the A5 should be. The only Raccal number is A08912-2. Can someone tell me what is the function of this circuit board?
> Rowland
>

1750. LF operation and 1Hz/10Hz/100Hz tuning options

Yahoo group: Racal6790GM
Date: 2011-07-02 03:49:31 UTC
From: berndt.wulf
Topic: 1750 Message: 1750

G'day,

I'm active on 2200m and 600m bands, would like to extend the frequency coverage of my receiver to below 500kHz. I also would like to change the tuning rates to a more convenient 1Hz/10Hz/100Hz. The archive has references to this topic, but I couldn't find any information from where to obtain the EPROM's or firmware images. Can someone point me into the right direction?

Many thanks in advance,

73, Berndt
VK5ABN

1751. Re: [Racal6790GM] Re: A08912 circuit board

Yahoo group: Racal6790GM
Date: 2011-07-02 21:30:51 UTC
From: gewingerd@netzero.com
Topic: 1536 Message: 1751
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1752. RF meter driver chip

Yahoo group: Racal6790GM
Date: 2011-07-03 05:53:12 UTC
From: berndt.wulf
Topic: 1752 Message: 1752

G'day,

I have a receiver that doesn't show the 7th bar on the RF meter. Has anyone information that identifies the LCD driver integrated circuity connected to this segment? I have a circuit diagram, but it is impossible to read any of the small print.

Many thanks in advance,

73, Berndt
VK5ABN

1753. RF power levels

Yahoo group: Racal6790GM
Date: 2011-07-03 06:12:16 UTC
From: berndt.wulf
Topic: 1753 Message: 1753

G'day,

has anyone information about RF power levels measured at the mixer input and output, RF amplifier and IF stages?

The receiver sensitivity, whilst not crash hot, appears to be reasonable, but the RF meter doesn't seem to agree. The first bar only appears for signals that are stronger than -80dBm.

I've tried to perform the AGC alignment procedure, but I'm unable to adjust R39 for an IF output of -10dBm with an RF input level of -113dBm at the antenna input connector.

Any help is very much appreciated.

73, Berndt
VK5ABN

1754. Re: [Racal6790GM] RF power levels

Yahoo group: Racal6790GM
Date: 2011-07-03 16:48:07 UTC
From: gewingerd@netzero.com
Topic: 1753 Message: 1754
Attachments: 4 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1755. Re: RF power levels

Yahoo group: Racal6790GM
Date: 2011-07-04 11:45:10 UTC
From: berndt.wulf
Topic: 1753 Message: 1755

G'day Gary,

many thanks for the information. I very much appreciate your help and will follow your lead.

73, Berndt
VK5ABN

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> I have attached some info that should help. Try aligning the A4 with 455 KHz into the A4 card and see if that helps, the A2 or a3 may be low in gain.
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: "berndt.wulf" <wulf@...>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] RF power levels
> Date: Sun, 03 Jul 2011 06:12:16 -0000
>
>
>
> G'day,
>
> has anyone information about RF power levels measured at the mixer input and output, RF amplifier and IF stages?
>
> The receiver sensitivity, whilst not crash hot, appears to be reasonable, but the RF meter doesn't seem to agree. The first bar only appears for signals that are stronger than -80dBm.
>
> I've tried to perform the AGC alignment procedure, but I'm unable to adjust R39 for an IF output of -10dBm with an RF input level of -113dBm at the antenna input connector.
>
> Any help is very much appreciated.
>
> 73, Berndt
> VK5ABN
>

1756. Proposed product to allow PC control by generic software programs?

Yahoo group: Racal6790GM
Date: 2011-07-09 14:29:08 UTC
From: jst5000can
Topic: 1756 Message: 1756

I'd appreciate any and all feedback on the group's interest in a product that would allow the 6790GM to connect to generic receiver PC control programs. One amazing example of the wide variety of free ham and SWL software available is "CW Skimmer" http://www.eham.net/reviews/detail/7573.

Unfortunately, most control software is based upon a standard Windows transceiver control routine that will not interface with the RACAL serial interface format.

I am confident in being able to offer a solution to make the 6790GM more valuable and useful. However, I need a push off the fence before making the financial commitment to the final level of PCB prototyping and evaluation.

Anyone enthused about adding this capability to their 6790GM?
Contact me here or directly at General@...

1757. Re: [Racal6790GM] Proposed product to allow PC control by generic software programs?

Yahoo group: Racal6790GM
Date: 2011-07-09 17:35:21 UTC
From: Bill
Topic: 1756 Message: 1757

I am definitely interested. Please keep me updated on the project

Thanks.......Bill

Sent from my iPhone

On Jul 9, 2011, at 4:29 AM, "jst5000can" <john.strupat@...> wrote:

> I'd appreciate any and all feedback on the group's interest in a product that would allow the 6790GM to connect to generic receiver PC control programs. One amazing example of the wide variety of free ham and SWL software available is "CW Skimmer" http://www.eham.net/reviews/detail/7573.
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> Unfortunately, most control software is based upon a standard Windows transceiver control routine that will not interface with the RACAL serial interface format.
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>
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> Contact me here or directly at General@...
>
>

1758. Re: [Racal6790GM] Proposed product to allow PC control by generic software programs?

Yahoo group: Racal6790GM
Date: 2011-07-09 23:43:55 UTC
From: Berndt Josef Wulf
Topic: 1756 Message: 1758

G'day,

The Hamlib library

http://sourceforge.net/apps/mediawiki/hamlib/index.php?title=Main_Page

has support for the RA6790/GM radio, which also means that there are a lot of Hamradio software applications that can be used with a RA6790/GM, see

http://sourceforge.net/apps/mediawiki/hamlib/index.php?title=Applications

I use Hamlib with a variety of other radios and also have ported a couple of radios, Yaesu FT990 and TenTen RX331, to Hamlib, but didn't use it with the RA6790/GM as I don't have a suitable connector for the serial port.

Is there anyone that has a spare connector? If so I would be interested in hearing from you. Once I have a connector, I will be able to port the RA6790/GM to Hamlib.

73, Berndt
VK5ABN

On Sat, 9 Jul 2011 23:59:08 you wrote:
> I'd appreciate any and all feedback on the group's interest in a product
> that would allow the 6790GM to connect to generic receiver PC control
> programs. One amazing example of the wide variety of free ham and SWL
> software available is "CW Skimmer"
> http://www.eham.net/reviews/detail/7573.
>
> Unfortunately, most control software is based upon a standard Windows
> transceiver control routine that will not interface with the RACAL serial
> interface format.
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> I am confident in being able to offer a solution to make the 6790GM more
> valuable and useful. However, I need a push off the fence before making
> the financial commitment to the final level of PCB prototyping and
> evaluation.
>
> Anyone enthused about adding this capability to their 6790GM?
> Contact me here or directly at General@...
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> Yahoo! Groups Links
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1759. Re: [Racal6790GM] Proposed product to allow PC control by generic software programs?

Yahoo group: Racal6790GM
Date: 2011-07-10 01:44:52 UTC
From: Bill Hooker
Topic: 1756 Message: 1759

Regarding connectors, you can search the old threads for sources or just call Alex at American Connector Corp. (305) 591-7530 and ask for Part Number MS3476L16-26S (connector) MS3417-16N (back shell). I just ordered two last week and they have plenty in stock.

73......Bill

--- On Sat, 7/9/11, Berndt Josef Wulf <wulf@...> wrote:

From: Berndt Josef Wulf <wulf@...>
Subject: Re: [Racal6790GM] Proposed product to allow PC control by generic software programs?
To: Racal6790GM@yahoogroups.com
Date: Saturday, July 9, 2011, 6:43 PM

G'day,

The Hamlib library

http://sourceforge.net/apps/mediawiki/hamlib/index.php?title=Main_Page

has support for the RA6790/GM radio, which also means that there are a lot of

Hamradio software applications that can be used with a RA6790/GM, see

http://sourceforge.net/apps/mediawiki/hamlib/index.php?title=Applications

I use Hamlib with a variety of other radios and also have ported a couple of

radios, Yaesu FT990 and TenTen RX331, to Hamlib, but didn't use it with the

RA6790/GM as I don't have a suitable connector for the serial port.

Is there anyone that has a spare connector? If so I would be interested in

hearing from you. Once I have a connector, I will be able to port the

RA6790/GM to Hamlib.

73, Berndt

VK5ABN

On Sat, 9 Jul 2011 23:59:08 you wrote:

> I'd appreciate any and all feedback on the group's interest in a product

> that would allow the 6790GM to connect to generic receiver PC control

> programs. One amazing example of the wide variety of free ham and SWL

> software available is "CW Skimmer"

> http://www.eham.net/reviews/detail/7573.

>

> Unfortunately, most control software is based upon a standard Windows

> transceiver control routine that will not interface with the RACAL serial

> interface format.

>

> I am confident in being able to offer a solution to make the 6790GM more

> valuable and useful. However, I need a push off the fence before making

> the financial commitment to the final level of PCB prototyping and

> evaluation.

>

> Anyone enthused about adding this capability to their 6790GM?

> Contact me here or directly at General@JSTtech.com

>

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> Yahoo! Groups Links

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1760. A3 Second Mixer Adjustment

Yahoo group: Racal6790GM
Date: 2011-07-12 07:26:56 UTC
From: Berndt Josef Wulf
Topic: 1760 Message: 1760

G'day,

The procedure for the A3 second mixer assembly is somewhat ambiguous in describing the adjustments for R26. It states:

<quote>
(6) After all coils have been adjusted for peak output, check the output level of the RF signal generator. RF signal generator level should not be greater than -53dBm. If gain is not correct adjust R26 (maintain -10dBm reference) and RF signal generator until gain is as specified. If R26 adjusts to maximum and specified gain cannot be obtained, then slightly adjust C3 for peak output. Readjust R26 for specified gain.
</quote>

Where in the document is the gain specified? At what signal output level should R26 be adjusted in order to give -10dBm output?

I didn't touch R26 until completing the coil adjustments. At this stage, the signal generator was set to -63dBm, which is better than the -53dBm specified. R26 was full clockwise at maximum gain.

What is the correct adjustment for R26 and C3?

73, Berndt
VK5ABN

1761. Re: [Racal6790GM] A3 Second Mixer Adjustment

Yahoo group: Racal6790GM
Date: 2011-07-12 13:38:43 UTC
From: gewingerd@netzero.com
Topic: 1760 Message: 1761
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1762. Bite Filter Detection

Yahoo group: Racal6790GM
Date: 2011-07-16 09:43:50 UTC
From: Berndt Josef Wulf
Topic: 1762 Message: 1762

G'day,

The receiver, a RA6790/GM, has LSB, USB, 0.4kHz, 1.2kHz, 3.24kHz, 6.8kHz and 16kHz filters installed. BITE identifies these as LSB, USB, 0.4kHz, 1.5kHz, 3.4kHz, 6.4kHz and 9.5kHz. Except for the 16kHz filter, values for the other filters are, what I believe, reasonably close.

Is BITE capable of correctly detecting a wideband filter such as the 16kHz filter?

73, Berndt
VK5ABN

1763. Re: [Racal6790GM] Bite Filter Detection

Yahoo group: Racal6790GM
Date: 2011-07-16 11:58:11 UTC
From: gewingerd@netzero.com
Topic: 1762 Message: 1763
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1764. Re: [Racal6790GM] Bite Filter Detection

Yahoo group: Racal6790GM
Date: 2011-07-16 13:18:50 UTC
From: Dan Rae
Topic: 1762 Message: 1764

On 7/16/2011 2:43 AM, Berndt Josef Wulf wrote:
> G'day,
>
> The receiver, a RA6790/GM, has LSB, USB, 0.4kHz, 1.2kHz, 3.24kHz, 6.8kHz and
> 16kHz filters installed. BITE identifies these as LSB, USB, 0.4kHz, 1.5kHz,
> 3.4kHz, 6.4kHz and 9.5kHz. Except for the 16kHz filter, values for the other
> filters are, what I believe, reasonably close.
>
> Is BITE capable of correctly detecting a wideband filter such as the 16kHz
> filter?
>
Berndt, remember that the 16 kHz filter, alone among the range offered,
is actually an LC filter, not crystal or mechanical, so will not have
steep edges. BITE tends to report all the filters as a bit wider than
the marked "width" depending on their shape factor and the routine has
an upper limit of 20 kHz anyway so that is often what you get from a 16
kHz filter on BITE.

What does the 16 sound like, and what does the S meter show on a carrier
as you tune through it?

Another good reason for setting the displayed filter widths manually!

73

Dan

1765. Re: [Racal6790GM] Bite Filter Detection

Yahoo group: Racal6790GM
Date: 2011-07-16 13:53:43 UTC
From: Berndt Josef Wulf
Topic: 1762 Message: 1765

G'day Gary,

many thanks for your email and suggestions. The filter appears to be operational since I can see the passband on Spectran, which means that the signal chain has no problems as far as bandwidth is concerned. Sensitivity of the receiver is better than specification.

Will recheck the alignment of A4. I have a second A4 PCB and will drop this one in as well and see how its behaves.

73, Berndt
VK5ABN

On Sat, 16 Jul 2011 21:28:11 you wrote:
> Berndt,
>
> Remove the filter and install a jumper wire for that filter and rerun
> BITE. If you get 20 KHz for the last filter then the 16 KHz filter is bad,
> if you get the same thing (9 KHz) then the A4 needs alignment or the A2 or
> A3 have narrow filters installed or they need alignment also.
>
> Thanks,
> Gary
>
>
> Please note: message attached
>
> From: Berndt Josef Wulf <wulf@...>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Bite Filter Detection
> Date: Sat, 16 Jul 2011 19:13:50 +0930
>
>
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1766. ELF/LF reception

Yahoo group: Racal6790GM
Date: 2011-07-16 14:13:21 UTC
From: Berndt Josef Wulf
Topic: 1766 Message: 1766

G'day,

I upgraded the firmware of the RA6790/GM to enable ELF/LF reception as well as tuning in 1Hz, 10Hz and 100Hz steps.

Reading the receiver's specifications, reception of signals on ELF/LF frequencies is expected to be very much degraded unless being optioned with a special mixer board. It came as a big surprise when tuned to 11.7kHz in USB mode I was able to receive the signals of the three Russian Alpha Stations using an mini whip active antenna.

Is this expected? Its performance isn't much behind of a Harris R2368/URR receiver using the same antenna. It also performs well receiving NDBs in the frequency spectrum of 200kHz-500kHz.

73, Berndt
VK5ABN

1767. Re: [Racal6790GM] ELF/LF reception

Yahoo group: Racal6790GM
Date: 2011-07-16 14:39:55 UTC
From: Dan Rae
Topic: 1766 Message: 1767

On 7/16/2011 7:13 AM, Berndt Josef Wulf wrote:
> It came as a big surprise when tuned to 11.7kHz in USB
> mode I was able to receive the signals of the three Russian Alpha Stations
> using an mini whip active antenna.
>
> Is this expected? Its performance isn't much behind of a Harris R2368/URR
> receiver using the same antenna. It also performs well receiving NDBs in the
> frequency spectrum of 200kHz-500kHz.

Maybe you actually have the LF mixer fitted Berndt. You can never tell from the outside what options are in the GMs. The true VLF option version mixer board has a much larger tin can for the mixer itself and has a small TO5 sized monolithic crystal filter in the LO injection chain, and usually a 16 kHz roofer on the A2 card and an 8 kHz roofer on the A3 card.

The regular GM will start to lose sensitivity around 150 kHz but will work after a fashion down much lower. At 11 kHz I would expect phase noise from the LO to be the limiting factor in a normal GM.

73

Dan

1768. What would make the 6790GM "better"?

Yahoo group: Racal6790GM
Date: 2011-07-16 16:01:52 UTC
From: jst5000can
Topic: 1768 Message: 1768

I'm looking for any and all opinions from the group on what features would make this receiver much more useful or friendly for hams and SWL's, instead of for the original military/commercial market. I'm interested in potential new features plus any extraneous features that should be removed.

From my prospective as a very new 6790GM operator, I wonder about the value of:

- the "BITE" routine and the flexible assignment of filters?

- the keypad selection of IF filters

- addition of audio passband and notch filters

- addition of a noise blanker

- improved PC interfacing (per my last posting)

I will admit that this is not entirely a "blue sky" exercise. I am more than 90% towards fully "reverse engineering" the entire firmware of this receiver. Once complete, then every software controlled aspect is open to change.

Even more dramatic improvements could be made to the receiver by combining new software with some new hardware, for example;

- new operator keypads

- more sophisticated displays

- more electronic outputs and inputs to interface with other equipment

With several thousand of the 6790Gm's still around in some form, I am very interested in ideas to make them as useful as possible. Just as important as the technical details is whether there is real value in doing this?
This is not a trivial exercise and will demand much more investment on my part to move forward.

Now is the ideal time to find out if this is a "hobby project" for my own benefit, or worthy of much more effort to supply RACAL owner's with something of value.

I'd really appreciate any thoughts or comments, either here or directly by email.

Thanks,

John VE3PCN

1769. Re: [Racal6790GM] ELF/LF reception

Yahoo group: Racal6790GM
Date: 2011-07-16 17:09:07 UTC
From: Thomas Frobase
Topic: 1766 Message: 1769

Is the firmware available to burn your own EPROMS? ... tom, N3LLL

On 7/16/2011 9:13 AM, Berndt Josef Wulf wrote:
>
> G'day,
>
> I upgraded the firmware of the RA6790/GM to enable ELF/LF reception as
> well as
> tuning in 1Hz, 10Hz and 100Hz steps.
>
> Reading the receiver's specifications, reception of signals on ELF/LF
> frequencies is expected to be very much degraded unless being optioned
> with a
> special mixer board. It came as a big surprise when tuned to 11.7kHz
> in USB
> mode I was able to receive the signals of the three Russian Alpha
> Stations
> using an mini whip active antenna.
>
> Is this expected? Its performance isn't much behind of a Harris R2368/URR
> receiver using the same antenna. It also performs well receiving NDBs
> in the
> frequency spectrum of 200kHz-500kHz.
>
> 73, Berndt
> VK5ABN
>
>

1770. Re: ELF/LF reception

Yahoo group: Racal6790GM
Date: 2011-07-17 08:02:17 UTC
From: berndt.wulf
Topic: 1766 Message: 1770

G'day Dan,

I've just checked and it has a standard mixer installed. It would be interesting to see the difference between these two side by side. Will keep an eye out for a mixer board.

73, Berndt
VK5ABN

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 7/16/2011 7:13 AM, Berndt Josef Wulf wrote:
> > It came as a big surprise when tuned to 11.7kHz in USB
> > mode I was able to receive the signals of the three Russian Alpha Stations
> > using an mini whip active antenna.
> >
> > Is this expected? Its performance isn't much behind of a Harris R2368/URR
> > receiver using the same antenna. It also performs well receiving NDBs in the
> > frequency spectrum of 200kHz-500kHz.
> Maybe you actually have the LF mixer fitted Berndt. You can never tell
> from the outside what options are in the GMs. The true VLF option
> version mixer board has a much larger tin can for the mixer itself and
> has a small TO5 sized monolithic crystal filter in the LO injection
> chain, and usually a 16 kHz roofer on the A2 card and an 8 kHz roofer on
> the A3 card.
>
> The regular GM will start to lose sensitivity around 150 kHz but will
> work after a fashion down much lower. At 11 kHz I would expect phase
> noise from the LO to be the limiting factor in a normal GM.
>
> 73
>
> Dan
>

1771. Re: [Racal6790GM] ELF/LF reception

Yahoo group: Racal6790GM
Date: 2011-07-16 16:43:45 UTC
From: Dan Rae
Topic: 1766 Message: 1771

And Berndt, if you did have an 8 kHz roofer Bite will report that in the 16 kHz position as approximately 9.5 kHz.
dr

1772. Re: [Racal6790GM] ELF/LF reception

Yahoo group: Racal6790GM
Date: 2011-07-19 19:15:51 UTC
From: Dan Rae
Topic: 1766 Message: 1772

On 7/16/2011 9:43 AM, Dan Rae wrote:
> And Berndt, if you did have an 8 kHz roofer Bite will report that in the
> 16 kHz position as approximately 9.5 kHz.
> dr
>
>
Which note has been in a Yahoo black hole for about a week!

Dan

1773. Re: ELF/LF reception

Yahoo group: Racal6790GM
Date: 2011-07-28 10:34:55 UTC
From: berndt.wulf
Topic: 1766 Message: 1773

G'day Dan,

sorry for late reply, but Yahoo Groups mailserver recons that my emails bounce. Strange that it is only the Yahoo Group mailserver having problems, as the Yahoo Email mailserver is fine delivering emails to my account.

No, the receiver has standard filters installed. I forced installed all filters and it seems ok.

73, Berndt
VK5ABN

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> And Berndt, if you did have an 8 kHz roofer Bite will report that in the
> 16 kHz position as approximately 9.5 kHz.
> dr
>

1774. Re: [Racal6790GM] Re: ELF/LF reception

Yahoo group: Racal6790GM
Date: 2011-07-28 14:57:51 UTC
From: Dan Rae
Topic: 1766 Message: 1774

On 7/28/2011 3:34 AM, berndt.wulf wrote:
>
> No, the receiver has standard filters installed. I forced installed all filters and it seems ok.
>
>
Berndt,

I was referring to the roofing filter on the A3 second mixer board, not the filters on the A4 IF board. If you have the 8 kHz roofer installed on the A3 board, which was fitted for the VLF option, then BITE would report about 9 or 10 kHz for either a 16 kHz IF filter or a link on the IF board.

If you do have this roofer, you're lucky, they're quite rare.

73

Dan

1775. (no subject)

Yahoo group: Racal6790GM
Date: 2011-08-01 18:48:16 UTC
From: Todd Roberts
Topic: 1775 Message: 1775

http://webchannel24.com/googlesearch.php

1776. Minimum detect level -140 dBm is that good ?

Yahoo group: Racal6790GM
Date: 2011-08-20 21:23:45 UTC
From: graham787
Topic: 1776 Message: 1776

Minimum detect level -140 dBm is that good ?

Run into a odd problem on 500Khz , neither the RA6790 (with LF front end / no rf pre amp) or the RA1778 will show a carrier on 504 Khz , that the Skanti R5003 , shows at 10/20 dB over the noise level using 'spec-lab' as the indicator, R5003 , has no pre-amp , direct to first mixer..same as the 6790

Using the sig-gen and 60 dB atten , the RA1778 minimum trace level is -150 / -155 dB (has rf-pre amp) , The 6790, round -140 / -145..removing the rf cable and fitting 50 ohm load to gen o/p with atten , removes the trace from the rx, so assume its not leakage

As these levels are well below the ambient noise levels, it not a sensitivity problem .??. adding a stepped attenuator to the Ae signal path , makes no difference, other than to alter the noise level..

The 500 khz feed is from the atu and the vswr round 1:1.2 on tx .The R5003 is the same lay-out , 40 meg 1st IF > 1.4 second (rx section of the TRP5000)

Any ideas or suggestions as to 'how' to solve the problem ..
wide band noise causing the roofing filter to ring may be?

Tnx -Graham

1777. Re: Info Needed

Yahoo group: Racal6790GM
Date: 2011-06-08 19:13:02 UTC
From: toptyp19
Topic: 1728 Message: 1777

Hi Walt-

I agree with the others in the group. Only Gary.
Seriously, I read where he was able to salvage one for
the Air Force that had been shot full of holes!

Joe.

--- In Racal6790GM@yahoogroups.com, Frank Hoffman <frankh1067@...> wrote:
>
> Gary Wingerd is your man. He is a former Racal technician who know all
> about them and does repairs. his email is gewingerd@...
> You got it for a steal.......
> I have one I'll be sending him myself.
>
> Regards, FH
>
> On Wed, Jun 8, 2011 at 9:12 AM, WalterT <sjotrollet@...> wrote:
> > As a newbie to Racals (used to see them in comm security spaces in USN and NSA but never worked with them as I was an analysist, not an opr).
> > Anyway, I recently picked up a 6790GM at a good price ($25 but it doesn't work). Was told it had problems in the voltage regulator and the display didn't work. Plugged it in, flash & puff of smoke from beneath the back-right corner of the board and fuse blew. Other than that, its in excellent physical condition.
> > ï¿½ Now comes decision time.
> > ï¿½ Should I sell it, as is, for a "hangar queen" (it has 5 mechanical filters in it)? I've noticed such inop ones going for parts for $300-400 on eBay (not a bad mark-up from $25)
> > ï¿½ I'm leaning towards, from all the good reviews I've read online lately, to get it fixed. That way if I peddle it, it should be worth a lot more but -- this is the dangerous part -- I might fall in love with it and dump my R-390A.
> > ï¿½ If deciding to get it fixed, can anyone suggest a shop or individual that is capable of doing the job properly. Does anyone have a vague guess what the problem might be (from the above description) and a vague idea of repair costs?
> > ï¿½ Mainly, I guess what I need is the name/email/phone of a shop or person that I can discuss this with.
> > ï¿½ Tks for any advice/assistance
> > 73
> > Walt (N4GL)
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >

> >
> >
> >
>
>
>
> --
> Frank Hoffman, PE
> frankh1067@...
> Cell 612-202-5817
>

1778. Re: [Racal6790GM] Re: Info Needed

Yahoo group: Racal6790GM
Date: 2011-08-21 03:13:21 UTC
From: gewingerd@netzero.com
Topic: 1728 Message: 1778
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1779. 100khz if unit 51-3001

Yahoo group: Racal6790GM
Date: 2011-09-14 09:28:59 UTC
From: ra1792fan
Topic: 1779 Message: 1779

Hi guys. New member from UK just fixed processor board A6 on RA1792. Fault turned out to be pcb track open circuit due corrosion on plated throo hole under battery. Phew! Does any one out there have a pdf of the 51-3001 shematic and circuit description? was this option s converter kit ST85433 0n 6790GM ?

1780. Frequency Display

Yahoo group: Racal6790GM
Date: 2011-09-23 22:12:55 UTC
From: Tony
Topic: 1780 Message: 1780

Hi All,
Noticed that occasionally my frequency display flickers and displays 888888888888 (think thats the right number of 8s) then settles down.
Any suggestions as to were to poke around?

73
Tony

1781. Re: [Racal6790GM] Frequency Display

Yahoo group: Racal6790GM
Date: 2011-09-23 23:34:27 UTC
From: gewingerd@netzero.com
Topic: 1780 Message: 1781
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1782. RA-3701 help

Yahoo group: Racal6790GM
Date: 2011-10-11 04:43:15 UTC
From: vk5abc
Topic: 1674 Message: 1782

Hello Everyone

Is there someone here with a RA-3701 ? I need to know the size of screw used to attach the back lighting pcb to the main board.

73's Lee

1783. Re: [Racal6790GM] RA-3701 help

Yahoo group: Racal6790GM
Date: 2011-10-12 02:19:19 UTC
From: BillT
Topic: 1674 Message: 1783

Hi Lee
These are posidrive metric < 5mm long.
Thread diameter appears to be 2.5mm overall.
I can find some if you wish.
Regards
Bill Tweedie

----- Original Message -----
From: vk5abc
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, October 11, 2011 3:43 PM
Subject: [Racal6790GM] RA-3701 help

Hello Everyone

Is there someone here with a RA-3701 ? I need to know the size of screw used to attach the back lighting pcb to the main board.

73's Lee

1784. RA1792 software bug? (MED agc and BFO freq)

Yahoo group: Racal6790GM
Date: 2011-10-13 10:22:24 UTC
From: vk2ilv
Topic: 1784 Message: 1784

hi there,

I may have a software problem,
the CPU is the 3 ROM version,
P80969/10A, and 08-A, and 00-A,
all ISSUE 1 8034.

The receiver works fine,
and passes the BITE test.
It works OK for LSB and USB.

It works OK for the other modes
but the display behaves strangely.
When I select AM or CW or FM
the MED time constant is selected for AGC,
and the display shows it on,
even when I press SHORT, MED, or LONG,
and you can here the time constant changing,
the SHORT and LONG are displayed,
but the MED is always displayed.
However,
the BW display on the right just shows 10,
not 10khz, just 10,
and there is no 10khz filter fitted.
Then when I press any bandwidth button,
the chosen BW is displayed, the MED goes away.
Then the SHORT, MED, LONG are displayed
when the appropriate button is pressed.

On CW the BFO freq is displayed as L.LK hz,
and the beat note is wrong.
The BFO has to be manually set
(using the BFO button and the main knob).

So it looks like the initial values are incorrectly loaded,
or corrupted in ROM.
When powered down,
then up,
the freq and BW are remembered,
so I'm assuming the RAM is working.

Has anyone seen this problem,
or is it just my receiver dying?

Regards
Ray

1785. Racal RA1792 100khz IF option unit

Yahoo group: Racal6790GM
Date: 2011-10-13 11:21:01 UTC
From: mummyshortlegs@waitrose.com
Topic: 1785 Message: 1785

hi everyone 73 from Kevin G3ZMC. My RA1792 has an optional single 100khz IF output unit type 51 - 3001 pcb 49-0122 fitted where the optional dual ISB IF option would be fitted. Does anyone have any info on my IF unit, a circuit diagram schematic would be great. regards.

1786. Re: [Racal6790GM] Racal RA1792 100khz IF option unit

Yahoo group: Racal6790GM
Date: 2011-10-13 15:33:01 UTC
From: Dan Rae
Topic: 1785 Message: 1786

On 10/13/2011 4:21 AM, mummyshortlegs@... wrote:
>
>
> hi everyone 73 from Kevin G3ZMC. My RA1792 has an optional single
> 100khz IF output unit type 51 - 3001 pcb 49-0122 fitted where the
> optional dual ISB IF option would be fitted. Does anyone have any info
> on my IF unit, a circuit diagram schematic would be great. regards.
>
>
Kevin, the 100 kHz IF unit is actually a lot more common in the 1792
than the ISB unit, since GCHQ did a lot of signal analysis at that
frequency and anyway both can be fitted.

I can email you the whole manual supplement pdf (2.2 MB) or just the
circuit, whatever Waitrose allows.

Dan

ac6ao / g3ncr

1787. Re: [Racal6790GM] Racal RA1792 100khz IF option unit

Yahoo group: Racal6790GM
Date: 2011-10-13 16:15:53 UTC
From: casy_ch@tbwil.ch
Topic: 1785 Message: 1787

Hi Dan

Amongst others I have an RA-1792 to which I would like to attach a panoramic display RA-1766 (in fact inside it is an Eddystone 1061HF). It can only receive an IF of 100KHz or 1.4MHz (switchable).

I would appreciate getting the manual supplement in order to look what I can do about the connection.

Thank you and vy 73 de Jean-Claude, HE9EZX

----- Original Message -----
From: Dan Rae
To: Racal6790GM@yahoogroups.com
Sent: Thursday, October 13, 2011 5:33 PM
Subject: Re: [Racal6790GM] Racal RA1792 100khz IF option unit

On 10/13/2011 4:21 AM, mummyshortlegs@waitrose.com wrote:

hi everyone 73 from Kevin G3ZMC. My RA1792 has an optional single 100khz IF output unit type 51 - 3001 pcb 49-0122 fitted where the optional dual ISB IF option would be fitted. Does anyone have any info on my IF unit, a circuit diagram schematic would be great. regards.
Kevin, the 100 kHz IF unit is actually a lot more common in the 1792 than the ISB unit, since GCHQ did a lot of signal analysis at that frequency and anyway both can be fitted.

I can email you the whole manual supplement pdf (2.2 MB) or just the circuit, whatever Waitrose allows.

Dan

ac6ao / g3ncr

1788. Re: [Racal6790GM] Racal RA1792 100khz IF option unit

Yahoo group: Racal6790GM
Date: 2011-10-14 09:14:55 UTC
From: mummyshortlegs@waitrose.com
Topic: 1785 Message: 1788

to Dan Rae AC6AO/G3NCR

hi Dan many thanks your offer. yes please, could you send a pdf of the whole manual supplement, dont think waitrose will object. Thanks also for info on GCHQ, my RA1792 is used alongside an Eddystone 880/4 definitely out of GCHQ in the sixties. kind regards Kevin hawkins G3ZMC

Oct 13 2011, Dan Rae wrote:

On 10/13/2011 4:21 AM, mummyshortlegs@... wrote:
>
>
> hi everyone 73 from Kevin G3ZMC. My RA1792 has an optional single
> 100khz IF output unit type 51 - 3001 pcb 49-0122 fitted where the
> optional dual ISB IF option would be fitted. Does anyone have any info
> on my IF unit, a circuit diagram schematic would be great. regards.
>
>
Kevin, the 100 kHz IF unit is actually a lot more common in the 1792
than the ISB unit, since GCHQ did a lot of signal analysis at that
frequency and anyway both can be fitted.

I can email you the whole manual supplement pdf (2.2 MB) or just the
circuit, whatever Waitrose allows.

Dan

ac6ao / g3ncr

1789. Racal 1792 birdie

Yahoo group: Racal6790GM
Date: 2011-10-17 10:24:38 UTC
From: mummyshortlegs@waitrose.com
Topic: 1789 Message: 1789

Hi everyone. My RA1792 has a very loud carier on 28,006.6 Mhz. All modes all functions. Another receiver placed close to RA1792 confirms 28,006.6 signal generated by RA1792 no matter what frequency/mode it is operated on. Any one got any ideas? regards Kevin G3ZMC.

1790. LF/VLF question.

Yahoo group: Racal6790GM
Date: 2011-10-25 16:43:55 UTC
From: driftermick
Topic: 1790 Message: 1790

For the group. Just got a 6790 from an estate/ SK sale. One of those deals, if you want radio A, you have to buy radio B and C. Any how, quick question. It receives great. I was tuning around, and I am getting a NDB, down on .382. I'm just east of Pittsburgh, PA, so I guess it's a local. But the question is, does this mean I have the LF/VLF proms installed? I haven't taken the lid off yet,and without a manual, I wouldn't know what to look for anyway. The receiver has the lite read-outs. And the tune rate will move 1, on the unstated tune rate. Fast /slow /nothing under tuning. Hope I stated that right.What I mean, the far right digit will move 1 at a time. Hope that comes across. Thanks for any and all info.

Drifter...

1791. 6790 Mystery Boards

Yahoo group: Racal6790GM
Date: 2011-10-27 00:04:44 UTC
From: swradioman
Topic: 1791 Message: 1791

I recently acquired a 6790 with two boards stacked in the A5 board positon at the back of the receiver. The boards are virtually identical, but do not resemble the picture of the ISB board in the manual. The information on the boards is 23386/1100095 and 23386/4100095. There are a lot of cables going to the boards and I imagine that someone here can tell me what these boards are. Any help is appreciated. I tried to research the information in previous messages in this group and was not sure that I could ascertain the information accurately. A picture of the installation can be supplied if this is helpful.

Thanks!

Randy

1792. FS: Racal MA1723 HF Exciter (needs work)

Yahoo group: Racal6790GM
Date: 2011-11-05 18:04:15 UTC
From: Tom B
Topic: 1792 Message: 1792

I have for sale a Racal MA1723 HF exciter that will need some work so I am selling as-is. It powers up but a fault light is on and there is no output. Also, like most Racal LCD readouts from this time, the displays are fuzzy but still readable. The microprocessor is operating. This unit does not have the FSK board. It includes a manual in PDF format. Pictures available on request.

Specs:
Frequency range: 1 to 30 MHz in 100 Hz steps.
Channel storage: Up to 100 channels of frequency and mode information.
Modes of emission: USB/LSB (R3E, J3E), Compatible AM (H3E) ,ISB (B7E, B8E or B9E), CW (A1A)
Power output: 200 mW maximum into 50 ohm load, adjustable by internal preset.

Price is $150 as-is plus shipping from 20914.

Tom Bryan
N3AJA

1793. Re: [Racal6790GM] FS: Racal MA1723 HF Exciter (needs work)

Yahoo group: Racal6790GM
Date: 2011-11-05 18:41:11 UTC
From: Dan Rae
Topic: 1792 Message: 1793

On 11/5/2011 11:04 AM, Tom B wrote:
> I have for sale a Racal MA1723 HF exciter that will need some work so I
> am selling as-is. It powers up but a fault light is on and there is no
> output.
Tom, the fault light will come on if it thinks there is no amplifier connected. If you link pin 3 of SK6 to ground pin15 the light should go out. See manual page 2-3. You may also need to link pins 8 and 20 of SK4, I forget exactly.

These go happily down to 500 kHz so are popular with the LF folk.

New LC displays for the frequency side are the same as for the receiver RA1792 and are obtainable from Italy. The mode one is not obtainable anywhere. I converted mine to LED displays.

Nice unit!

Dan

ac6ao / g3ncr

1794. Re: [Racal6790GM] FS: Racal MA1723 HF Exciter (needs work)

Yahoo group: Racal6790GM
Date: 2011-11-05 23:15:16 UTC
From: pzkfw4usa@aol.com
Topic: 1792 Message: 1794

Hi Tom, Don Davis here. I wasn't able to copy your phone number today. Could you please send it
to me via email and I'll call you on the land line. Whats a good time? Don.

-----Original Message-----
From: Tom B <tbryan@...>
To: Racal6790GM <Racal6790GM@yahoogroups.com>
Sent: Sat, Nov 5, 2011 2:04 pm
Subject: [Racal6790GM] FS: Racal MA1723 HF Exciter (needs work)

I have for sale a Racal MA1723 HF exciter that will need some work so I
am selling as-is. It powers up but a fault light is on and there is no
output. Also, like most Racal LCD readouts from this time, the displays
are fuzzy but still readable. The microprocessor is operating. This
unit does not have the FSK board. It includes a manual in PDF format.
Pictures available on request.

Specs:
Frequency range: 1 to 30 MHz in 100 Hz steps.
Channel storage: Up to 100 channels of frequency and mode information.
Modes of emission: USB/LSB (R3E, J3E), Compatible AM (H3E) ,ISB (B7E,
B8E or B9E), CW (A1A)
Power output: 200 mW maximum into 50 ohm load, adjustable by internal
preset.

Price is $150 as-is plus shipping from 20914.

Tom Bryan
N3AJA

1795. Racal RA-6790GM receiver AS-IS For Sale

Yahoo group: Racal6790GM
Date: 2011-11-06 14:45:44 UTC
From: Steven Baer
Topic: 1795 Message: 1795

Racal RA-6790GM receiver AS-IS. Displays need to be replaced & at

least one filter needs to be added. Unit does power up. Copy of

manual included. $400 plus shipping. E-mail Steve :
kc7flp@... <mailto:kc7flp@...>

1796. Are there defined 'steps' in the BITE process?

Yahoo group: Racal6790GM
Date: 2011-11-14 22:57:07 UTC
From: mdcalvert2004
Topic: 1796 Message: 1796

Recent New Member -- 1st Post

In running the BITE on my RA6790/GM, it sometimes stops and shows Error 15. Other times it finishes the BITE with no errors. In trying to watch the two display panels and hear the changing tones, I have become curious if the BITE is actually a series of 'steps' or 'commands,' which would make it similar to a PC or printer's POST.

If there are steps, is there a way to discern what step is being performed at any given part of the BITE.

Thanks

MDC in TN

1797. Frequency display replacement

Yahoo group: Racal6790GM
Date: 2011-11-25 10:42:30 UTC
From: bepi
Topic: 1797 Message: 1797

Hello list,

need replace the frequency display and not sure about the correct position,the actual (broken) display has no reference points,
the new has a little noise of reference.
Any idea about the correct position for replacement ?

Thanks and regards , giuseppe , iv3pvd.

1798. Re: [Racal6790GM] Frequency display replacement

Yahoo group: Racal6790GM
Date: 2011-11-25 16:30:02 UTC
From: gewingerd@netzero.net
Topic: 1797 Message: 1798
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1799. Looking for ISB Option for the Racal RA1792

Yahoo group: Racal6790GM
Date: 2011-11-30 08:29:26 UTC
From: Hans Remeeus
Topic: 1799 Message: 1799

Hello group,

For the Racal RA1792 I am searching for the ISB Option.

Perhaps someone in this group has one left.

Thanks and 73!

--
Vriendelijke groeten,
Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

1800. RA1792 100kHz IF Output

Yahoo group: Racal6790GM
Date: 2011-12-01 14:31:01 UTC
From: g4gjl@btopenworld.com
Topic: 1800 Message: 1800

I have discovered I have a 100 kHz IF output board which can be fited into the RACAL RA1792.

Does any one have a schematic for the convertor board, or alternatively a list of the various connectors (mainly the coaxial ones) on the board? It is not immediately clear which are inputs or outputs.

The can enclosing the board is marked thus:
51-3001
100KHz IF Output

Help would be very much appreciated.

Pete
G4GJL

1801. Re: [Racal6790GM] RA1792 100kHz IF Output

Yahoo group: Racal6790GM
Date: 2011-12-01 15:00:23 UTC
From: Phill Simmons
Topic: 1800 Message: 1801
Attachments: 1 described; binary payloads are missing from this source WARC

Hi.
I am attaching the manual for the 100kHz IF unit.
Should do the job.
Phill

From: "g4gjl@..." <g4gjl@...>
To: Racal6790GM@yahoogroups.com
Sent: Thursday, 1 December 2011, 14:31
Subject: [Racal6790GM] RA1792 100kHz IF Output

I have discovered I have a 100 kHz IF output board which can be fited into the RACAL RA1792.

Does any one have a schematic for the convertor board, or alternatively a list of the various connectors (mainly the coaxial ones) on the board? It is not immediately clear which are inputs or outputs.

The can enclosing the board is marked thus:
51-3001
100KHz IF Output

Help would be very much appreciated.

Pete
G4GJL

1802. Re: [Racal6790GM] RA1792 100kHz IF Output [1 Attachment]

Yahoo group: Racal6790GM
Date: 2011-12-01 15:53:02 UTC
From: g4gjl@btopenworld.com
Topic: 1800 Message: 1802

Wow, that was quick!

thank you, Phill. Ill have a quick browse>

Pete

From: Phill Simmons <phill.simmons@talk21.com>
To: "Racal6790GM@yahoogroups.com" <Racal6790GM@yahoogroups.com>
Sent: Thursday, 1 December 2011, 15:00
Subject: Re: [Racal6790GM] RA1792 100kHz IF Output [1 Attachment]

[Attachment(s) from Phill Simmons included below]
Hi.
I am attaching the manual for the 100kHz IF unit.
Should do the job.
Phill

From: "g4gjl@..." <g4gjl@...>
To: Racal6790GM@yahoogroups.com
Sent: Thursday, 1 December 2011, 14:31
Subject: [Racal6790GM] RA1792 100kHz IF Output

I have discovered I have a 100 kHz IF output board which can be fited into the RACAL RA1792.

Does any one have a schematic for the convertor board, or alternatively a list of the various connectors (mainly the coaxial ones) on the board? It is not immediately clear which are inputs or outputs.

The can enclosing the board is marked thus:
51-3001
100KHz IF Output

Help would be very much appreciated.

Pete
G4GJL

1803. Fault in display under 1.700 kHz

Yahoo group: Racal6790GM
Date: 2011-12-03 17:36:23 UTC
From: Hans Remeeus
Topic: 1803 Message: 1803

Hello Group,

Under 1.700 kHz the word FAULT is visible on the display of the Racal RA1792.

Does somebody know what this can mean?

It is only visible when I tune lower than 1.700 kHz. Around 1.700 kHz it starts to blink and at lower frequencies the word FAULT remains visible in the display.

RX is quite normal (and even excellent) at lower frequencies than 1.700 kHz. It's only the word in the display which confuses.

Thanks and regards.

--

Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

1804. Re: [Racal6790GM] Fault in display under 1.700 kHz

Yahoo group: Racal6790GM
Date: 2011-12-03 18:20:42 UTC
From: Dan Rae
Topic: 1803 Message: 1804

On 12/3/2011 9:36 AM, Hans Remeeus wrote:
>
>
>
> Hello Group,
>
> Under 1.700 kHz the word FAULT is visible on the display of the Racal
> RA1792.
>
> Does somebody know what this can mean?
>
Probably because it thinks there is a fault Hans. I would guess that the synth board A7 needs adjustment. I don't remember what Mark you have, and the alignment for the A7 board is different for the LSI and non LSI versions.

For the non LSI version, in brief:

Set R16 for 5.2 +/- 0.01 Volts at TP5

Tune to 29.9999 MHz and adjust L5 for 15.0 +/- 0.1 V at TP12

Check that TP12 is above 2.5 V at tuning freq 0.00000

Check that the frequency at A7 J3 is equal to the tuned frequency plus 40.455 MHz everywhere.

73

Dan

1805. Re: [Racal6790GM] Fault in display under 1.700 kHz

Yahoo group: Racal6790GM
Date: 2011-12-03 18:24:28 UTC
From: Hans Remeeus
Topic: 1803 Message: 1805

Thanks Dan! You have been of great help.

73!

Hans Remeeus (PA1HR)
http://www.remeeus.eu
http://www.hansremeeus.nl
Communication is about people, the rest is technology.

Op 3-12-2011 19:20, Dan Rae schreef:
>
>
> On 12/3/2011 9:36 AM, Hans Remeeus wrote:
>>
>> Hello Group,
>>
>> Under 1.700 kHz the word FAULT is visible on the display of the Racal
>> RA1792.
>>
>> Does somebody know what this can mean?
>>
> Probably because it thinks there is a fault Hans. I would guess that
> the synth board A7 needs adjustment. I don't remember what Mark you
> have, and the alignment for the A7 board is different for the LSI and
> non LSI versions.
>
> For the non LSI version, in brief:
>
> Set R16 for 5.2 +/- 0.01 Volts at TP5
>
> Tune to 29.9999 MHz and adjust L5 for 15.0 +/- 0.1 V at TP12
>
> Check that TP12 is above 2.5 V at tuning freq 0.00000
>
> Check that the frequency at A7 J3 is equal to the tuned frequency plus
> 40.455 MHz everywhere.
>
> 73
>
> Dan
>
>
>

1806. RA1792 Bite Test with fault

Yahoo group: Racal6790GM
Date: 2011-12-04 17:35:46 UTC
From: Fenu
Topic: 1806 Message: 1806

Dear Group Users,

I have a problem with my RA1792.
When I make the Bite Test, comes the Fault Code 13 - 21545.

The Receiving is 100% ok.

Can anyone say me what this is for a fault?

Many thanks in advance.

Fenu

1807. Re: [Racal6790GM] RA1792 Bite Test with fault

Yahoo group: Racal6790GM
Date: 2011-12-04 18:10:24 UTC
From: Phill Simmons
Topic: 1806 Message: 1807

Bite Test 13 is the A7 L.O. Synthesizer varactor voltage sweep test.
Try re-aligning the board.

Phill

From: Fenu <fenu@...>
To: Racal6790GM@yahoogroups.com
Sent: Sunday, 4 December 2011, 17:35
Subject: [Racal6790GM] RA1792 Bite Test with fault

Dear Group Users,

I have a problem with my RA1792.
When I make the Bite Test, comes the Fault Code 13 - 21545.

The Receiving is 100% ok.

Can anyone say me what this is for a fault?

Many thanks in advance.

Fenu

1808. Intro and my problem

Yahoo group: Racal6790GM
Date: 2011-12-05 16:16:35 UTC
From: donottakethisname
Topic: 1808 Message: 1808

Hi folks, I'm Artur from Germany and lurking here for some time ;)
In Summer i've bought on ebay a unit witch was declared as probably defective. Ok, it was for 250 euros. So let me describe the problem. My neighbour-am tx is regulary on 576. On the Racal i can hear it on 572 and 580 (am with 6khz crystal filter, fault is also notable on ssb). So it seems that there is something wrong in the rf-section. LO, Mixer or so. Is this fault something familiar for this unit? I'm familiar with radios and electronics but not with Racal. Can somebody put a hint here?

regards,
art

1809. I need help for repair the RA1792

Yahoo group: Racal6790GM
Date: 2011-12-12 21:50:18 UTC
From: Fenu
Topic: 1809 Message: 1809

Dear Group Users,

Few weeks ago I have purchased a Racal RA1792.
The vendor has guaranteed me, that the Racal works 100%....
Now I have problems with this radio.
After 2-3 hours of working with him, the fault indication begins to flicker and the audio are distorted and disturbed.
The Bite Test stop by number 13. This is the 1St. LO Synthesizer A7.

My question:

Can anyone give me a good adress in europe for repair, control and full alignment for the RA1792?
And how much cost a repair/alignment in the average?
I don't experience with Commercial Receivers... :-(((

Many thank in advance for your help.

Best Regards from Switzerland

Fernando

1810. RE: [Racal6790GM] I need help for repair the RA1792

Yahoo group: Racal6790GM
Date: 2011-12-12 22:01:25 UTC
From: Carcia, Francis A HS
Topic: 1809 Message: 1810

Sounds like a cap is going bad. Check for brown spots or if a cap is getting warm.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Fenu
Sent: Monday, December 12, 2011 4:50 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] I need help for repair the RA1792

Dear Group Users,

Few weeks ago I have purchased a Racal RA1792.
The vendor has guaranteed me, that the Racal works 100%....
Now I have problems with this radio.
After 2-3 hours of working with him, the fault indication begins to flicker and the audio are distorted and disturbed.
The Bite Test stop by number 13. This is the 1St. LO Synthesizer A7.

My question:

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And how much cost a repair/alignment in the average?
I don't experience with Commercial Receivers... :-(((

Many thank in advance for your help.

Best Regards from Switzerland

Fernando

1811. Re: [Racal6790GM] I need help for repair the RA1792

Yahoo group: Racal6790GM
Date: 2011-12-12 22:09:03 UTC
From: Fenu-Radio
Topic: 1809 Message: 1811

Hi,

I have checked the radio inside. I don't have found any defective parts.
I cannot repair the RA1792.
I think the best is ship the radio to a specialist....

Regards
Fernando

Am 12.12.2011 um 23:01 schrieb Carcia, Francis A HS:

> Sounds like a cap is going bad. Check for brown spots or if a cap is getting warm.

1812. Re: [Racal6790GM] I need help for repair the RA1792

Yahoo group: Racal6790GM
Date: 2011-12-12 22:13:50 UTC
From: casy_ch@tbwil.ch
Topic: 1809 Message: 1812

Hello Fernando

Always difficult to tell nowadays what is Europe - hihihi!

If you want a reliable and specialized company for your RA-1792, take contact with: Telford Electronics in the UK (http://www.telford-electronics.co.uk). I have bought several rigs from them and had one of my RA-1792's overhauled there. Their cost is not very high, but the postage to the UK was CHF 78.00 in 2009 and UK£50.00 back!

I can only recommend them as specialist of Racal and Marconi. I have no connection to them, just a satisfied customer.

By the way, is your cat still listening shortwaves?

Jean-Claude, Switzerland

----- Original Message -----
From: Fenu
To: Racal6790GM@yahoogroups.com
Sent: Monday, December 12, 2011 10:50 PM
Subject: [Racal6790GM] I need help for repair the RA1792

Dear Group Users,

Few weeks ago I have purchased a Racal RA1792.
The vendor has guaranteed me, that the Racal works 100%....
Now I have problems with this radio.
After 2-3 hours of working with him, the fault indication begins to flicker and the audio are distorted and disturbed.
The Bite Test stop by number 13. This is the 1St. LO Synthesizer A7.

My question:

Can anyone give me a good adress in europe for repair, control and full alignment for the RA1792?
And how much cost a repair/alignment in the average?
I don't experience with Commercial Receivers... :-(((

Many thank in advance for your help.

Best Regards from Switzerland

Fernando

1813. Re: [Racal6790GM] I need help for repair the RA1792

Yahoo group: Racal6790GM
Date: 2011-12-12 22:47:08 UTC
From: Phill Simmons
Topic: 1809 Message: 1813

Hi Fernando,
From your description of the fault it may be that the Pot (R119) A4 board needs re-setting. This can cause the fault indicator to flash and the sound quality to distort if going out of spec. This sometimes causes the Fault code 13 as well.
Try realigning R119 A4 board. with no signal at antenna and AGC set to short.
Connect volt meter to TP9 and GND.
adjust R119 for a 10V reading. This resets the correct voltage.

Rgds,
Phill

From: Fenu <fenu@fenu-radio.ch>
To: Racal6790GM@yahoogroups.com
Sent: Monday, 12 December 2011, 21:50
Subject: [Racal6790GM] I need help for repair the RA1792

Dear Group Users,

Few weeks ago I have purchased a Racal RA1792.
The vendor has guaranteed me, that the Racal works 100%....
Now I have problems with this radio.
After 2-3 hours of working with him, the fault indication begins to flicker and the audio are distorted and disturbed.
The Bite Test stop by number 13. This is the 1St. LO Synthesizer A7.

My question:

Can anyone give me a good adress in europe for repair, control and full alignment for the RA1792?
And how much cost a repair/alignment in the average?
I don't experience with Commercial Receivers... :-(((

Many thank in advance for your help.

Best Regards from Switzerland

Fernando

1814. Re: [Racal6790GM] I need help for repair the RA1792

Yahoo group: Racal6790GM
Date: 2011-12-13 03:40:57 UTC
From: Fenu-Radio
Topic: 1809 Message: 1814

Hi Jean Claude,

Thank you for your reply.
Yes, I think also, that it's the solution! I contact Telford.

And yes!
My cat come sometimes to list SW...;-))

übrigens, mir kännned üs.

Regards
Fernando

Am 12.12.2011 um 23:13 schrieb <casy_ch@...> <casy_ch@...>:

>
> Hello Fernando
>
> Always difficult to tell nowadays what is Europe - hihihi!
>
> If you want a reliable and specialized company for your RA-1792, take contact with: Telford Electronics in the UK (http://www.telford-electronics.co.uk). I have bought several rigs from them and had one of my RA-1792's overhauled there. Their cost is not very high, but the postage to the UK was CHF 78.00 in 2009 and UK£50.00 back!
>
> I can only recommend them as specialist of Racal and Marconi. I have no connection to them, just a satisfied customer.
>
> By the way, is your cat still listening shortwaves?
>
> Jean-Claude, Switzerland
>
>
> ----- Original Message -----
> From: Fenu
> To: Racal6790GM@yahoogroups.com
> Sent: Monday, December 12, 2011 10:50 PM
> Subject: [Racal6790GM] I need help for repair the RA1792
>
>
>
> Dear Group Users,
>
> Few weeks ago I have purchased a Racal RA1792.
> The vendor has guaranteed me, that the Racal works 100%....
> Now I have problems with this radio.
> After 2-3 hours of working with him, the fault indication begins to flicker and the audio

are distorted and disturbed.
> The Bite Test stop by number 13. This is the 1St. LO Synthesizer A7.
>
> My question:
>
> Can anyone give me a good adress in europe for repair, control and full alignment for the RA1792?
> And how much cost a repair/alignment in the average?
> I don't experience with Commercial Receivers... :-(((
>
> Many thank in advance for your help.
>
> Best Regards from Switzerland
>
> Fernando
>
>
>
>

1815. Re: [Racal6790GM] I need help for repair the RA1792

Yahoo group: Racal6790GM
Date: 2011-12-13 03:52:37 UTC
From: Fenu-Radio
Topic: 1809 Message: 1815

Hi Phill,

I have adjust all points that are possible to adjust with the Digital Multi Meter. Also the R119 on the IF/AF Board.
But are not possible to adjust the R119 under 12V. I have turn the R119 to left full counterclockwise. 12V are the minimum.

Regards
Fernando

Am 12.12.2011 um 23:47 schrieb Phill Simmons:

>
> Hi Fernando,
> From your description of the fault it may be that the Pot (R119) A4 board needs re-setting. This can cause the fault indicator to flash and the sound quality to distort if going out of spec. This sometimes causes the Fault code 13 as well.
> Try realigning R119 A4 board. with no signal at antenna and AGC set to short.
> Connect volt meter to TP9 and GND.
> adjust R119 for a 10V reading. This resets the correct voltage.
>
> Rgds,
> Phill
>
> From: Fenu <fenu@...>
> To: Racal6790GM@yahoogroups.com
> Sent: Monday, 12 December 2011, 21:50
> Subject: [Racal6790GM] I need help for repair the RA1792
>
>
> Dear Group Users,
>
> Few weeks ago I have purchased a Racal RA1792.
> The vendor has guaranteed me, that the Racal works 100%....
> Now I have problems with this radio.
> After 2-3 hours of working with him, the fault indication begins to flicker and the audio are distorted and disturbed.
> The Bite Test stop by number 13. This is the 1St. LO Synthesizer A7.
>
> My question:
>
> Can anyone give me a good adress in europe for repair, control and full alignment for the RA1792?
> And how much cost a repair/alignment in the average?
> I don't experience with Commercial Receivers... :-(((
>

> Many thank in advance for your help.
>
> Best Regards from Switzerland
>
> Fernando
>
>
>
>
>

1816. Re: [Racal6790GM] I need help for repair the RA1792

Yahoo group: Racal6790GM
Date: 2011-12-13 10:18:00 UTC
From: gewingerd@netzero.com
Topic: 1809 Message: 1816
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1817. Re: I need help for repair the RA1792

Yahoo group: Racal6790GM
Date: 2011-12-13 11:21:00 UTC
From: Fenu
Topic: 1809 Message: 1817

Hi Gary,

That pot what you mean are the R7.
I have control and adjust all voltages, also the 5,2V from R7. Checked by TP16.
But I will check again the voltage and make this what you write.
Maybe helps...

Thank you.

Regards
Fernando

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Fernando,
>
> Check the +5.2 volts on the A7 card, if the pot is dirty that controls the +5.2volts you will have exactly the problem you are describing. Turn the pot several times and adjust for +5.2 volts.
> If the voltage drops down to +4.9 volts then back to +5.2 volts then the pot is bad. Sorry don't know the number on the pot for the RA1792 receiver, it maybe the same as the Ra6790/GM A7R16.
>
> Thanks,
> Gary
>
>
> Please note: message attached
>
> From: Fenu-Radio <fenu@...>
> To: Racal6790GM@yahoogroups.com
> Subject: Re: [Racal6790GM] I need help for repair the RA1792
> Date: Tue, 13 Dec 2011 04:52:37 +0100
>
>
>
> Hi Phill,
>
> I have adjust all points that are possible to adjust with the Digital Multi Meter. Also the R119 on the IF/AF Board.
> But are not possible to adjust the R119 under 12V. I have turn the R119 to left full counterclockwise. 12V are the minimum.
>
> Regards
> Fernando
>

> Am 12.12.2011 um 23:47 schrieb Phill Simmons:
>
> >
> > Hi Fernando,
> > From your description of the fault it may be that the Pot (R119) A4 board needs re-setting. This can cause the fault indicator to flash and the sound quality to distort if going out of spec. This sometimes causes the Fault code 13 as well.
> > Try realigning R119 A4 board. with no signal at antenna and AGC set to short.
> > Connect volt meter to TP9 and GND.
> > adjust R119 for a 10V reading. This resets the correct voltage.
> >
> > Rgds,
> > Phill
> >
> > From: Fenu <fenu@...>
> > To: Racal6790GM@yahoogroups.com
> > Sent: Monday, 12 December 2011, 21:50
> > Subject: [Racal6790GM] I need help for repair the RA1792
> >
> >
> > Dear Group Users,
> >
> > Few weeks ago I have purchased a Racal RA1792.
> > The vendor has guaranteed me, that the Racal works 100%....
> > Now I have problems with this radio.
> > After 2-3 hours of working with him, the fault indication begins to flicker and the audio are distorted and disturbed.
> > The Bite Test stop by number 13. This is the 1St. LO Synthesizer A7.
> >
> > My question:
> >
> > Can anyone give me a good adress in europe for repair, control and full alignment for the RA1792?
> > And how much cost a repair/alignment in the average?
> > I don't experience with Commercial Receivers... :-(((
> >
> > Many thank in advance for your help.
> >
> > Best Regards from Switzerland
> >
> > Fernando
> >
> >
> >
> >
> >
>

1818. Re: I need help for repair the RA1792

Yahoo group: Racal6790GM
Date: 2011-12-14 06:02:38 UTC
From: Fenu
Topic: 1809 Message: 1818

Hi Gary,

I have check the R7 pot. It's ok. The checkpoint ist not TP16. It's TP1.

Only the voltage from the pot R119 on the IF/AF Board A4 is not ok. Check on TP9 I read 10.37V. Needed 10V +-0.05. The pot are now full counterclockwise. More down don't goes.

Regards
Fernando

--- In Racal6790GM@yahoogroups.com, "Fenu" <fenu@...> wrote:
>
> Hi Gary,
>
> That pot what you mean are the R7.
> I have control and adjust all voltages, also the 5,2V from R7. Checked by TP16.
> But I will check again the voltage and make this what you write.
> Maybe helps...
>
> Thank you.
>
> Regards
> Fernando
>
> --- In Racal6790GM@yahoogroups.com, "gewingerd@" <gewingerd@> wrote:
> >
> > Fernando,
> >
> > Check the +5.2 volts on the A7 card, if the pot is dirty that controls the +5.2volts you will have exactly the problem you are describing. Turn the pot several times and adjust for +5.2 volts.
> > If the voltage drops down to +4.9 volts then back to +5.2 volts then the pot is bad. Sorry don't know the number on the pot for the RA1792 receiver, it maybe the same as the Ra6790/GM A7R16.
> >
> > Thanks,
> > Gary
> >
> >
> > Please note: message attached
> >
> > From: Fenu-Radio <fenu@>
> > To: Racal6790GM@yahoogroups.com
> > Subject: Re: [Racal6790GM] I need help for repair the RA1792
> > Date: Tue, 13 Dec 2011 04:52:37 +0100
> >

> >
> >
> > Hi Phill,
> >
> > I have adjust all points that are possible to adjust with the Digital Multi Meter. Also the R119 on the IF/AF Board.
> > But are not possible to adjust the R119 under 12V. I have turn the R119 to left full counterclockwise. 12V are the minimum.
> >
> > Regards
> > Fernando
> >
> > Am 12.12.2011 um 23:47 schrieb Phill Simmons:
> >
> > >
> > > Hi Fernando,
> > > From your description of the fault it may be that the Pot (R119) A4 board needs re-setting. This can cause the fault indicator to flash and the sound quality to distort if going out of spec. This sometimes causes the Fault code 13 as well.
> > > Try realigning R119 A4 board. with no signal at antenna and AGC set to short.
> > > Connect volt meter to TP9 and GND.
> > > adjust R119 for a 10V reading. This resets the correct voltage.
> > >
> > > Rgds,
> > > Phill
> > >
> > > From: Fenu <fenu@>
> > > To: Racal6790GM@yahoogroups.com
> > > Sent: Monday, 12 December 2011, 21:50
> > > Subject: [Racal6790GM] I need help for repair the RA1792
> > >
> > >
> > > Dear Group Users,
> > >
> > > Few weeks ago I have purchased a Racal RA1792.
> > > The vendor has guaranteed me, that the Racal works 100%....
> > > Now I have problems with this radio.
> > > After 2-3 hours of working with him, the fault indication begins to flicker and the audio are distorted and disturbed.
> > > The Bite Test stop by number 13. This is the 1St. LO Synthesizer A7.
> > >
> > > My question:
> > >
> > > Can anyone give me a good adress in europe for repair, control and full alignment for the RA1792?
> > > And how much cost a repair/alignment in the average?
> > > I don't experience with Commercial Receivers... :-(((
> > >
> > > Many thank in advance for your help.
> > >

> > > Best Regards from Switzerland
> > >
> > > Fernando
> > >
> > >
> > >
> > >
> > >
> >
>

1820. Attention: Illegal RF Systems products on sale!

Yahoo group: Racal6790GM
Date: 2011-12-22 01:00:04 UTC
From: Fenu
Topic: 1820 Message: 1820

Dear Users,

Please read this important news on
http://www.rf-systems.nl/illegal-RF-Systems-products.html

Best Regards
Fernando

1821. RE: [Racal6790GM] Attention: Illegal RF Systems products on sale!

Yahoo group: Racal6790GM
Date: 2011-12-22 01:33:39 UTC
From: Robert Allen
Topic: 1820 Message: 1821

This is annoying. I mean if I paid the absurd prices for an RF-Systems MLB (which is just a regular $12 balun), and then I got a cheap copy, I would be peeved! :)

Robert

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Fenu
Sent: Wednesday, December 21, 2011 5:00 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Attention: Illegal RF Systems products on sale!

Dear Users,

Please read this important news on
http://www.rf-systems.nl/illegal-RF-Systems-products.html

1822. New memory Battery for the 6790

Yahoo group: Racal6790GM
Date: 2012-01-05 18:07:26 UTC
From: toddroberts2001@aol.com
Topic: 1822 Message: 1822

Hi All,
I wonder if anyone here has looked into making up their own
replacement memory battery for the 6790?

I was recently informed by Mouser that the VARTA 55615 702 012
2.4V MEMPAC nimh batteries have been discontinued. They are no longer
available to order any more from the manufacturer.

It looks like someone could make a suitable replacement by wiring
2 x 1/3AAA size nimh batteries with tabs in series for 2.4V.
These are 10mm dia x 15mm long so two wired in series would be
just the right size to fit on the A6A2 board in place of the VARTA battery.

I have seen nothing but trouble whenever I have run across a 6790
that had batteries mounted remotely, usually in some kind of plastic
battery
holder. If the radio is shipped the battery holder is likely to come loose
inside the chassis and float around causing damage inside the radio.
This has happened to me more than once over the years!
Securing a battery holder inside the radio with double-sided tape is
just asking for trouble somewhere down the line. Anyone that
has a 6790 with remote batteries should remove the batteries before
shipping
the radio and make sure the battery holder is screwed down with hardware.

73 - Todd WD4NGG

1823. Re: [Racal6790GM] New memory Battery for the 6790

Yahoo group: Racal6790GM
Date: 2012-01-05 18:40:35 UTC
From: gewingerd@netzero.com
Topic: 1822 Message: 1823
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1824. Re: [Racal6790GM] New memory Battery for the 6790

Yahoo group: Racal6790GM
Date: 2012-01-05 19:06:32 UTC
From: Dan Rae
Topic: 1822 Message: 1824

On 1/5/2012 10:07 AM, toddroberts2001@... wrote:
> Hi All,
> I wonder if anyone here has looked into making up their own
> replacement memory battery for the 6790?
>
> I was recently informed by Mouser that the VARTA 55615 702 012
> 2.4V MEMPAC nimh batteries have been discontinued. They are no longer
> available to order any more from the manufacturer.
>
>
Todd, I used to do that before Mouser carried the correct Varta type. There are a lot of laptop back-up batteries that use two NiMH button cells which will fit in the space and are available for few dollars . I also have made a little daughter board like Racal UK did for the 1792 before changing over to the newer type.

I totally agree about the use of remote batteries; not a good idea!

73 - Dan

1825. RE: [Racal6790GM] New memory Battery for the 6790

Yahoo group: Racal6790GM
Date: 2012-01-05 19:20:56 UTC
From: Carcia, Francis A HS
Topic: 1822 Message: 1825

I also built a daughter board for the RA6830 CPU module and installed a button cell socket on the daughter board so I could use a common cell.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Dan Rae
Sent: Thursday, January 05, 2012 2:07 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] New memory Battery for the 6790

On 1/5/2012 10:07 AM, toddroberts2001@... <mailto:toddroberts2001%40aol.com> wrote:
> Hi All,
> I wonder if anyone here has looked into making up their own
> replacement memory battery for the 6790?
>
> I was recently informed by Mouser that the VARTA 55615 702 012
> 2.4V MEMPAC nimh batteries have been discontinued. They are no longer
> available to order any more from the manufacturer.
>
>
Todd, I used to do that before Mouser carried the correct Varta type. There are a lot of laptop back-up batteries that use two NiMH button cells which will fit in the space and are available for few dollars . I also have made a little daughter board like Racal UK did for the 1792 before changing over to the newer type.

I totally agree about the use of remote batteries; not a good idea!

73 - Dan

1826. Re: [Racal6790GM] New memory Battery for the 6790

Yahoo group: Racal6790GM
Date: 2012-01-06 13:17:12 UTC
From: Tom Frobase
Topic: 1822 Message: 1826

I moved the battery off of the circuit board and mounted it on the
chassis with a pair of AAA nicads. Works fine ... Tom, N3LLL

On 1/5/12, toddroberts2001@... <toddroberts2001@...> wrote:
> Hi All,
> I wonder if anyone here has looked into making up their own
> replacement memory battery for the 6790?
>
> I was recently informed by Mouser that the VARTA 55615 702 012
> 2.4V MEMPAC nimh batteries have been discontinued. They are no longer
> available to order any more from the manufacturer.
>
> It looks like someone could make a suitable replacement by wiring
> 2 x 1/3AAA size nimh batteries with tabs in series for 2.4V.
> These are 10mm dia x 15mm long so two wired in series would be
> just the right size to fit on the A6A2 board in place of the VARTA battery.
>
> I have seen nothing but trouble whenever I have run across a 6790
> that had batteries mounted remotely, usually in some kind of plastic
> battery
> holder. If the radio is shipped the battery holder is likely to come loose
> inside the chassis and float around causing damage inside the radio.
> This has happened to me more than once over the years!
> Securing a battery holder inside the radio with double-sided tape is
> just asking for trouble somewhere down the line. Anyone that
> has a 6790 with remote batteries should remove the batteries before
> shipping
> the radio and make sure the battery holder is screwed down with hardware.
>
> 73 - Todd WD4NGG
>
>

--
Sent from my mobile device

1827. A5 isb T1/T2 help

Yahoo group: Racal6790GM
Date: 2012-01-13 13:54:38 UTC
From: vk5abc
Topic: 1827 Message: 1827

Hello All

I need to replace T1 but the manual does not give much detail apart from the output impedance of 600 ohm and no detail about the center tap or the primary impedance, I am guessing 150 ohm maybe.

One more question what do you do when the ua757 chip goes on the fritz what do you replace it with? Replacements are getting hard to find.

73's Lee

1828. RE: [Racal6790GM] A5 isb T1/T2 help

Yahoo group: Racal6790GM
Date: 2012-01-13 18:22:40 UTC
From: Carcia, Francis A HS
Topic: 1827 Message: 1828

Most of the problems I have seen with the UA757 is the high impedance input makes the part oscillate. Try terminating the input with 500 to 1000 ohms. This is a real problem in the RA6830 because the input emitter follower is on the filter board and the 757 is on the IF board through a foot of coax. I have a couple receivers that oscillate when cold. A 470 ohm load at the emitter follower took care of the problem. I also tamed it near the 757 with a 1K load.

Frank WA1GFZ

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of vk5abc
Sent: Friday, January 13, 2012 8:55 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] A5 isb T1/T2 help

Hello All

I need to replace T1 but the manual does not give much detail apart from the output impedance of 600 ohm and no detail about the center tap or the primary impedance, I am guessing 150 ohm maybe.

One more question what do you do when the ua757 chip goes on the fritz what do you replace it with? Replacements are getting hard to find.

73's Lee

1829. Re: New memory Battery for the 6790

Yahoo group: Racal6790GM
Date: 2012-01-05 18:41:34 UTC
From: graham787
Topic: 1822 Message: 1829

Todd,

I just fitted a flying lead wire ended nimh one , a replecent for a portable phone about 1 inch square.

G.

--- In Racal6790GM@yahoogroups.com, toddroberts2001@... wrote:
>
> Hi All,
> I wonder if anyone here has looked into making up their own
> replacement memory battery for the 6790?
>
> I was recently informed by Mouser that the VARTA 55615 702 012
> 2.4V MEMPAC nimh batteries have been discontinued. They are no longer
> available to order any more from the manufacturer.
>
> It looks like someone could make a suitable replacement by wiring
> 2 x 1/3AAA size nimh batteries with tabs in series for 2.4V.
> These are 10mm dia x 15mm long so two wired in series would be
> just the right size to fit on the A6A2 board in place of the VARTA battery.
>
> I have seen nothing but trouble whenever I have run across a 6790
> that had batteries mounted remotely, usually in some kind of plastic
> battery
> holder. If the radio is shipped the battery holder is likely to come loose
> inside the chassis and float around causing damage inside the radio.
> This has happened to me more than once over the years!
> Securing a battery holder inside the radio with double-sided tape is
> just asking for trouble somewhere down the line. Anyone that
> has a 6790 with remote batteries should remove the batteries before
> shipping
> the radio and make sure the battery holder is screwed down with hardware.
>
> 73 - Todd WD4NGG
>

1830. Re: [Racal6790GM] I need help for repair the RA1792

Yahoo group: Racal6790GM
Date: 2011-12-13 07:58:05 UTC
From: Marco IK1ODO -2
Topic: 1809 Message: 1830

Hello Fernando,

we possibly are closer to you, and we routinely repair RA1792, other high-end receivers and test equipment.
We are near Torino, NW Italy. Contact me off the list at marco.bruno@...

Vy 73 - Marco IK1ODO

1831. Re: [Racal6790GM] Re: New memory Battery for the 6790

Yahoo group: Racal6790GM
Date: 2012-01-18 01:47:47 UTC
From: mparkinson1
Topic: 1822 Message: 1831

Todd
There is someone on the list Name Gary Wingerd who sell the batteries for 10.00 bucks I beleive he has plenty at this time.
That is where I get my batteries for the 6790.

Matt Parkinson Military Equipment & R 390A Depot Center

1832. RA6793A-8

Yahoo group: Racal6790GM
Date: 2012-01-19 01:14:35 UTC
From: chuck6790
Topic: 1832 Message: 1832

Does anyone know what options are included in the -8 of the 6793?

1833. Unknown A6A2-Board

Yahoo group: Racal6790GM
Date: 2012-02-04 09:13:02 UTC
From: greendog_de
Topic: 1833 Message: 1833

Hello,

i found out, that my "new" 6790 has a cpu board inside which contains only one EEPROM and a GAL. Never seen such board in the 6790 before. Can someone help with schematics?

I would like to have other tuning steps so replacing the firmware is necessary. But firmware files are available only for cpu boards with 2 or 3 EEPROMs. Someone known a source for the modyfied firmware file?

Thank you very much.

Kind regards,
Thorsten

1834. Re: [Racal6790GM] Unknown A6A2-Board

Yahoo group: Racal6790GM
Date: 2012-02-04 12:55:45 UTC
From: gewingerd@netzero.com
Topic: 1833 Message: 1834
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1835. Re: [Racal6790GM] Unknown A6A2-Board

Yahoo group: Racal6790GM
Date: 2012-02-04 15:12:25 UTC
From: Dan Rae
Topic: 1833 Message: 1835

On 2/4/2012 1:13 AM, greendog_de wrote:
> Hello,
>
> i found out, that my "new" 6790 has a cpu board inside which contains only one EEPROM and a GAL. Never seen such board in the 6790 before. Can someone help with schematics?
>
A later Z80 version perhaps, assuming you have a /GM? These can have
one or two EPROMS, and one 6116 RAM but no EEPROM or GAL devices.

A part number would be a help.

Dan

1836. Re: Unknown A6A2-Board

Yahoo group: Racal6790GM
Date: 2012-02-04 17:24:18 UTC
From: greendog_de
Topic: 1833 Message: 1836

Hi Gary,

i uploaded a photo in

Photo > Miscellaneous > A6A2

And i did not mean EEPROM. My board contains an EPROM of course (and a GAL), sorry!

Regards,
Thorsten

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Thorsten,
>
> Need to see a couple of pictures of the card.
>
> Thanks,
> Gary
>
>
>
> Please note: message attached
>
> From: "greendog_de" <greendog_de@...>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Unknown A6A2-Board
> Date: Sat, 04 Feb 2012 09:13:02 -0000
>
>
>
> Hello,
>
> i found out, that my "new" 6790 has a cpu board inside which contains only one EEPROM and a GAL. Never seen such board in the 6790 before. Can someone help with schematics?
>
> I would like to have other tuning steps so replacing the firmware is necessary. But firmware files are available only for cpu boards with 2 or 3 EEPROMs. Someone known a source for the modyfied firmware file?
>
> Thank you very much.
>
> Kind regards,
> Thorsten
>

1837. Re: [Racal6790GM] Re: Unknown A6A2-Board

Yahoo group: Racal6790GM
Date: 2012-02-05 00:43:57 UTC
From: gewingerd@netzero.com
Topic: 1833 Message: 1837
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1838. 6793

Yahoo group: Racal6790GM
Date: 2012-02-05 19:53:00 UTC
From: Bob Betts
Topic: 1704 Message: 1838

Hi Again, Gary:

Do you happen to have LCD displays and LED back lights for the 6793?

Is that the same setup as the 6790/GM.

Thanks...enjoy the afternoon,

Bob, N1KPR

http://www.bobsamerica.com
* Music * Audio * Radio *
"It's all good"

1839. Re: Unknown A6A2-Board

Yahoo group: Racal6790GM
Date: 2012-02-10 20:15:28 UTC
From: greendog_de
Topic: 1833 Message: 1839

Ok Gary, thanks a lot!

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Thorsten,
>
>
> I have looked at the picture and I have never seen the card before. I suspect that it may be a newer card from one of the other RACAL units that someone has adapted to the RA6790/GM receiver.
>
> Thanks,
> Gary

1840. Schematic Power Supply 6790/GM

Yahoo group: Racal6790GM
Date: 2012-02-20 20:54:45 UTC
From: ea8it
Topic: 1840 Message: 1840

I wonder if any one have the schematic of the Power Supply or the place to get it.
I recently hav had a problem there and need to fix it.

1841. Re: [Racal6790GM] Schematic Power Supply 6790/GM

Yahoo group: Racal6790GM
Date: 2012-02-21 10:09:26 UTC
From: gewingerd@netzero.com
Topic: 1840 Message: 1841
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1842. Re: Schematic Power Supply 6790/GM

Yahoo group: Racal6790GM
Date: 2012-02-23 15:24:03 UTC
From: BW PITMAN
Topic: 1840 Message: 1842

One kind member replied to this request attaching a set of excellent schematics, unfortunately I stupidly deleted the e-mail. Any chance of a resend, I would greatly appreciate the diagrams.
Bryan

1843. Re: [Racal6790GM] Re: Schematic Power Supply 6790/GM

Yahoo group: Racal6790GM
Date: 2012-02-23 16:42:20 UTC
From: Bob Betts
Topic: 1840 Message: 1843

Brian:
Go to the group's home page and click <messages>. Gary's message and attachments are there.

Bob, N1KPR

http://www.bobsamerica.com
* Music * Audio * Radio *
"It's all good"

--- On Thu, 2/23/12, BW PITMAN <shipwrights.cottered@...> wrote:

From: BW PITMAN <shipwrights.cottered@...>
Subject: [Racal6790GM] Re: Schematic Power Supply 6790/GM
To: "Racal6790GM@yahoogroups.com" <Racal6790GM@...m>
Date: Thursday, February 23, 2012, 10:24 AM

One kind member replied to this request attaching a set of excellent schematics, unfortunately I stupidly deleted the e-mail. Any chance of a resend, I would greatly appreciate the diagrams.
Bryan

1844. ra1723 drive unit

Yahoo group: Racal6790GM
Date: 2012-02-23 19:46:59 UTC
From: ra1792fan
Topic: 1844 Message: 1844

Hi everyone. Anyone in the UK got a 1723 drive unit for sale? anything considered. Regards Kevin G3zmc

1845. Re: [Racal6790GM] ra1723 drive unit

Yahoo group: Racal6790GM
Date: 2012-02-24 03:48:10 UTC
From: Terry
Topic: 1844 Message: 1845

On 24/02/12 08:46, ra1792fan wrote:
> 1723 drive unit
Hello ra1792fan,

There's one being advertized in the UK for ?285.00 ~ $470 US at
http://www.armyradio.com/arsc/customer/product.php?productid=1514 .

73s.

1846. Re: [Racal6790GM] ra1723 drive unit

Yahoo group: Racal6790GM
Date: 2012-02-24 03:57:13 UTC
From: Dan Rae
Topic: 1844 Message: 1846

On 2/23/2012 7:48 PM, Terry wrote:
>
>
> On 24/02/12 08:46, ra1792fan wrote:
>> 1723 drive unit
> Hello ra1792fan,
>
> There's one being advertized in the UK for ?285.00 ~ $470 US at
> http://www.armyradio.com/arsc/customer/product.php?productid=1514 .
>
> 73s.
>
>
> _
I notice it is not pictured turned on :^) Every one of those that has passed through my hands has had bad LC Displays sooner or later, mostly sooner. The frequency one can be replaced by the new ones sold in Italy for the RA1792 but /not/ the right hand one. And it's an MA1723. Not RA, FWIW.

73 - Dan

1847. Re: [Racal6790GM] ra1723 drive unit

Yahoo group: Racal6790GM
Date: 2012-02-24 10:21:46 UTC
From: mummyshortlegs@waitrose.com
Topic: 1844 Message: 1847

Many thanks Dan and Terry. Anyone have a schematic pdf? Was the MA1723 ever intended to link in with the RA1792 to allow split frequency duplex or same frequency transceive? 73 to all Kevin G3ZMC.

On Feb 24 2012, Dan Rae wrote:

On 2/23/2012 7:48 PM, Terry wrote:
>
>
> On 24/02/12 08:46, ra1792fan wrote:
>> 1723 drive unit
> Hello ra1792fan,
>
> There's one being advertized in the UK for £285.00 ~ $470 US at
> http://www.armyradio.com/arsc/customer/product.php?productid=1514 .
>
> 73s.
>
>
> _
I notice it is not pictured turned on :^) Every one of those that has passed through my hands has had bad LC Displays sooner or later, mostly sooner. The frequency one can be replaced by the new ones sold in Italy for the RA1792 but /not/ the right hand one. And it's an MA1723. Not RA, FWIW.

73 - Dan

1848. Re: [Racal6790GM] ra1723 drive unit

Yahoo group: Racal6790GM
Date: 2012-02-24 15:18:16 UTC
From: oscar873@aol.com
Topic: 1844 Message: 1848

Dan,

Would u have a manual for the RA1796A ?

Al

-----Original Message-----
From: Dan Rae <danrae@...>
To: Racal6790GM <Racal6790GM@yahoogroups.com>
Sent: Thu, Feb 23, 2012 7:57 pm
Subject: Re: [Racal6790GM] ra1723 drive unit

On 2/23/2012 7:48 PM, Terry wrote:
On 24/02/12 08:46, ra1792fan wrote:
1723 drive unit
Hello ra1792fan,

There's one being advertized in the UK for £285.00 ~ $470 US at
http://www.armyradio.com/arsc/customer/product.php?productid=1514 .

73s.

–

I notice it is not pictured turned on :^) Every one of those that has passed through my hands has had bad LC Displays sooner or later, mostly sooner. The frequency one can be replaced by the new ones sold in Italy for the RA1792 but not the right hand one. And it's an MA1723. Not RA, FWIW.

73 - Dan

1849. Re: [Racal6790GM] ra1723 drive unit

Yahoo group: Racal6790GM
Date: 2012-02-24 23:43:53 UTC
From: Tom B
Topic: 1844 Message: 1849

I have one for sale that needs work, but I am in the US.

Tom Bryan
N3AJA

On 2/23/2012 2:46 PM, ra1792fan wrote:
> Hi everyone. Anyone in the UK got a 1723 drive unit for sale? anything considered.
Regards Kevin G3zmc
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

1850. Re: [Racal6790GM] ra1723 drive unit

Yahoo group: Racal6790GM
Date: 2012-02-25 08:54:08 UTC
From: mummyshortlegs@waitrose.com
Topic: 1844 Message: 1850

hi tom , many thanks. Ive just found one fairly locally.73 kevin G3ZMC

On Feb 24 2012, Tom B wrote:

I have one for sale that needs work, but I am in the US.

Tom Bryan
N3AJA

On 2/23/2012 2:46 PM, ra1792fan wrote:
> Hi everyone. Anyone in the UK got a 1723 drive unit for sale? anything considered.
Regards Kevin G3zmc
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

Yahoo! Groups Links

<*> To visit your group on the web, go to:
http://groups.yahoo.com/group/Racal6790GM/

<*> Your email settings:
Individual Email | Traditional

<*> To change settings online go to:
http://groups.yahoo.com/group/Racal6790GM/join
(Yahoo! ID required)

<*> To change settings via email:
Racal6790GM-digest@yahoogroups.com
Racal6790GM-fullfeatured@yahoogroups.com

<*> To unsubscribe from this group, send an email to:
Racal6790GM-unsubscribe@yahoogroups.com

<*> Your use of Yahoo! Groups is subject to:
http://docs.yahoo.com/info/terms/

1851. Re: [Racal6790GM] Re: Schematic Power Supply 6790/GM

Yahoo group: Racal6790GM
Date: 2012-02-25 14:32:33 UTC
From: BW PITMAN
Topic: 1840 Message: 1851

Bob,
Many thanks
Bryan

_____
From: Bob Betts <rwbetts@...>
To: Racal6790GM@yahoogroups.com
Sent: Thursday, 23 February 2012, 16:42
Subject: Re: [Racal6790GM] Re: Schematic Power Supply 6790/GM

Brian:
Go to the group's home page and click <messages>. Gary's message and attachments are there.

Bob, N1KPR
http://www.bobsamerica.com
* Music * Audio * Radio *
"It's all good"

--- On Thu, 2/23/12, BW PITMAN <shipwrights.cottered@...> wrote:

>From: BW PITMAN <shipwrights.cottered@...>
>Subject: [Racal6790GM] Re: Schematic Power Supply 6790/GM
>To: "Racal6790GM@yahoogroups.com" <Racal6790GM@yahoogroups.com>
>Date: Thursday, February 23, 2012, 10:24 AM
>
>
>
>One kind member replied to this request attaching a set of excellent schematics,
unfortunately I stupidly deleted the e-mail. Any chance of a resend, I would greatly
appreciate the diagrams.
>Bryan

1852. Racal 6790/GM displays all zero's

Yahoo group: Racal6790GM
Date: 2012-02-27 05:05:24 UTC
From: orland3
Topic: 1852 Message: 1852

Hello
My first Racal pickuped up from a hamswap. Both displays are zeros when power on. From File section I see that starting the Racal up with only pwr supply, display and A6A2 connected you can check A6A2 board. I am still zeros on display. Is there anything I can do to to recover the A6A2 or is new needed ?

Ron

1853. RA1792 auto preselector

Yahoo group: Racal6790GM
Date: 2012-02-27 11:41:42 UTC
From: mummyshortlegs@waitrose.com
Topic: 1853 Message: 1853

Hi group. Can anyone point me in the right direction to obtain pdf download of schematic and rear connector pin out or better still manual for MA1101/4 ST77900/A s/n 424. regards Kevin G3ZMC

1854. Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-02-28 03:23:52 UTC
From: Darrell
Topic: 1854 Message: 1854

I just bought another 6790 and after having it on around 30 minutes the audio goes "scratchy" and the fault light starts to flicker. I have had it running on / off for a few days now and it only does it every once in awhile. Wondering if anyone may have had a similar problem ?

Thanks, Darrell

1855. Re: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-02-28 14:08:13 UTC
From: Dennis Hatch
Topic: 1854 Message: 1855

Sounds like an intermittently "leaky" tantalum by-pass capacitor. I have had success in finding them by using a soldering iron tip to heat the suspected capacitor while the circuit is still cool. Also a heat gun can be used to locate the general area, and home in with the soldering iron tip. AND using component cooler such as "Freeze Mist" to isolate the faulty capacitor.....

--- On Mon, 2/27/12, Darrell <dh1338@hotmail.com> wrote:

From: Darrell <dh1338@...>
Subject: [Racal6790GM] Anyone heard of this problem before ?
To: Racal6790GM@yahoogroups.com
Date: Monday, February 27, 2012, 9:23 PM

I just bought another 6790 and after having it on around 30 minutes the audio goes "scratchy" and the fault light starts to flicker. I have had it running on / off for a few days now and it only does it every once in awhile. Wondering if anyone may have had a similar problem ?

Thanks, Darrell

1856. RE: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-02-28 14:22:55 UTC
From: Carcia, Francis A HS
Topic: 1854 Message: 1856

Or just feel around for the warm cap or dark color spots

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Dennis Hatch
Sent: Tuesday, February 28, 2012 9:08 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Anyone heard of this problem before ?

Sounds like an intermittently "leaky" tantalum by-pass capacitor. I have had success in finding them by using a soldering iron tip to heat the suspected capacitor while the circuit is still cool. Also a heat gun can be used to locate the general area, and home in with the soldering iron tip. AND using component cooler such as "Freeze Mist" to isolate the faulty capacitor.....

--- On Mon, 2/27/12, Darrell <dh1338@hotmail.com> wrote:

From: Darrell <dh1338@hotmail.com>
Subject: [Racal6790GM] Anyone heard of this problem before ?
To: Racal6790GM@yahoogroups.com
Date: Monday, February 27, 2012, 9:23 PM

I just bought another 6790 and after having it on around 30 minutes the audio goes "scratchy" and the fault light starts to flicker. I have had it running on / off for a few days now and it only does it every once in awhile. Wondering if anyone may have had a similar problem ?

Thanks, Darrell

1857. Re: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-02-28 18:23:15 UTC
From: gewingerd@netzero.com
Topic: 1854 Message: 1857
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1858. Re: Racal 6790/GM displays all zero's

Yahoo group: Racal6790GM
Date: 2012-02-29 04:32:05 UTC
From: orland3
Topic: 1852 Message: 1858

--- In Racal6790GM@yahoogroups.com, "orland3" <orland3@...> wrote:
>
> Hello
> My first Racal pickuped up from a hamswap. Both displays are zeros when power on. From File section I see that starting the Racal up with only pwr supply, display and A6A2 connected you can check A6A2 board. I am still zeros on display. Is there anything I can do to to recover the A6A2 or is new needed ?
>
> Ron
>
Am I doing something wrong? An answer I should figure out on my own? I spent alot ($300) to me for this radio and trying to do an economic recovery and have some fun at doing it....sorry for the whining.

Ron WD6FAQ

1859. Re: [Racal6790GM] Re: Racal 6790/GM displays all zero's

Yahoo group: Racal6790GM
Date: 2012-02-29 10:21:17 UTC
From: gewingerd@netzero.com
Topic: 1852 Message: 1859
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1860. Re: Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-02-28 22:52:53 UTC
From: graham787
Topic: 1854 Message: 1860

Good advice , I have re set that a few times over the years, odd it should drift though ?

G.

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Darrell,
>
> Check the +5.2 volt adjustment on the A7 card.
>
> Thanks,
> Gary
>
>
>
> Please note: message attached
>
> From: "Darrell" <dh1338@...>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Anyone heard of this problem before ?
> Date: Tue, 28 Feb 2012 03:23:52 -0000
>
>
>
> I just bought another 6790 and after having it on around 30 minutes the audio goes "scratchy" and the fault light starts to flicker. I have had it running on / off for a few days now and it only does it every once in awhile. Wondering if anyone may have had a similar problem ?
>
> Thanks, Darrell
>

1861. Re: ra1723 drive unit

Yahoo group: Racal6790GM
Date: 2012-02-24 14:32:45 UTC
From: graham787
Topic: 1844 Message: 1861

If there was the serial SCOR card in each , I suppose its possible with some linking software . big Job and you can buy a SDR tx/rx for the same kind of $ outlay , that would be just as good ?

G.

1862. Re: [Racal6790GM] Re: Racal 6790/GM displays all zero's

Yahoo group: Racal6790GM
Date: 2012-02-29 15:18:38 UTC
From: Dan Rae
Topic: 1852 Message: 1862

On 2/28/2012 8:32 PM, orland3 wrote:
>
> --- In Racal6790GM@yahoogroups.com, "orland3"<orland3@...> wrote:
>> Hello
>> My first Racal pickuped up from a hamswap. Both displays are zeros when power on. From File section I see that starting the Racal up with only pwr supply, display and A6A2 connected you can check A6A2 board. I am still zeros on display. Is there anything I can do to to recover the A6A2 or is new needed ?
>>
>> Ron
>>
>
You got a radio for a very good price, so please don't complain further...

It doesn't work, and you want us to tell you how to fix it?

1 Read The Fine Manual

2 Search the message archives for similar problems and the suggestions there.

3 Read Gary's helpful file.

4 RTFM again

Specifically: All zeros is the reset state of the cpu.

Why does it not start up?

95% of times you will find that the Nicad battery has caused your problems, but there are other possibilities.

Check all the supply Voltages. If one is missing then find the shorted tantalum Cap.

If there is still an old Nicad on the board, remove it. Replacement should be NiMH type, these are for the moment, still available.

Look for signs of damage from the battery alkali electrolyte leaking, green or blue colored corrosion... This is the most common problem with these boards. Clean the board [1]. Look for damage up to and even inside the 34 way connector, which can be anywhere in that area near the battery. Open pc tracks and VIAs are common. I have seen transistor leads eaten through, and for some reason the RAMs are vulnerable. Jameco sell the 5101.

73 - Dan

[1] I use diluted vinegar with a tooth brush followed by isopropyl alcohol and then a thorough rinsing with distilled water and drying.

1863. Re: [Racal6790GM] Re: Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-02-29 15:44:19 UTC
From: Dan Rae
Topic: 1854 Message: 1863

On 2/28/2012 2:52 PM, graham787 wrote:
> Good advice , I have re set that a few times over the years, odd it should drift though ?
>
> G.
>
>
Graham, I have seen the pot itself go a bit noisy which can cause
intermittent problems or problems after shipping etc., Just adjusting
it may often be enough to clear it up. It's not as bad as the little
Bourns pots that racal used elsewhere; they can go completely open.

73 - Dan

1864. Re: Racal 6790/GM displays all zero's

Yahoo group: Racal6790GM
Date: 2012-03-01 04:59:08 UTC
From: orland3
Topic: 1852 Message: 1864

Gary

Thanks for the reply. I see nothing I recognize as a battery on this board. Also two roms on the board and no comunication board.

Ron

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Ron,
>
> $300.00 is a great price for a dead unit, I sell refurbished units for $1250.00 plus shipping.
>
> The problem is with the A6A2 card. It maybe a connector that attaches to the A9 board or even the pad for negative side of the battery on the card. The question is has the battery leaked onto the card, if so then the battery needs removed and the tracks cleaned and a new battery installed.
> Is the remote card installed (IF NOT A JUMPER NEEDS INSTALLED OR A 10K RESISTOR WILL WORK)? Is the software OK? I have attached a file that might help.
>
> If all else fails I can look at the card for you to confirm that the card is bad, I have new cards in stock ready to go for $325.00 plus shipping. The cards have the latest software, new battery, all the chips on sockets and 10K resistor for the A6A1 card.
>
> Gary E. Wingerd
> 9107 Jordan Rd.
> Fairplay, MD 21733
>
> Thanks,
> Gary
>
>
>
> Please note: message attached
>
> From: "orland3" <orland3@...>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Re: Racal 6790/GM displays all zero's
> Date: Wed, 29 Feb 2012 04:32:05 -0000
>
>
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>
> --- In Racal6790GM@yahoogroups.com, "orland3" <orland3@> wrote:

> >
> > Hello
> > My first Racal pickuped up from a hamswap. Both displays are zeros when power on. From File section I see that starting the Racal up with only pwr supply, display and A6A2 connected you can check A6A2 board. I am still zeros on display. Is there anything I can do to to recover the A6A2 or is new needed ?
> >
> > Ron
> >
> Am I doing something wrong? An answer I should figure out on my own? I spent alot ($300) to me for this radio and trying to do an economic recovery and have some fun at doing it....sorry for the whining.
>
> Ron WD6FAQ
>

1865. Re: [Racal6790GM] Re: Racal 6790/GM displays all zero's

Yahoo group: Racal6790GM
Date: 2012-03-01 10:08:16 UTC
From: gewingerd@netzero.com
Topic: 1852 Message: 1865
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1866. RE: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-02 03:21:51 UTC
From: darrell huth
Topic: 1854 Message: 1866

Gary:

Thanks ! ... You were right on the money. Adjusted to 5.2V and now works perfect.

Darrell

To: Racal6790GM@yahoogroups.com
From: gewingerd@...
Date: Tue, 28 Feb 2012 18:23:15 +0000
Subject: Re: [Racal6790GM] Anyone heard of this problem before ?

Darrell,

Check the +5.2 volt adjustment on the A7 card.

Thanks,

Gary

Please note: message attached

From: "Darrell" <dh1338@...>

To: Racal6790GM@yahoogroups.com

Subject: [Racal6790GM] Anyone heard of this problem before ?

Date: Tue, 28 Feb 2012 03:23:52 -0000

--Forwarded Message Attachment--
To: Racal6790GM@yahoogroups.com
From: dh1338@...
Date: Tue, 28 Feb 2012 03:23:52 +0000
Subject: [Racal6790GM] Anyone heard of this problem before ?

I just bought another 6790 and after having it on around 30 minutes the audio goes "scratchy" and the fault light starts to flicker. I have had it running on / off for a few days now and it only does it every once in awhile. Wondering if anyone may have had a similar problem ?

Thanks, Darrell

1867. Re: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-02 03:16:34 UTC
From: Thomas Frobase
Topic: 1854 Message: 1867

I had the same problem, the pot was dirty, the set would run a while
then quit ... 73, tom, N3LLL

On 3/1/2012 9:21 PM, darrell huth wrote:
>
> Gary:
>
> Thanks ! ... You were right on the money. Adjusted to 5.2V and
> now works perfect.
>
> Darrell
>
> ---
> To: Racal6790GM@yahoogroups.com
> From: gewingerd@...
> Date: Tue, 28 Feb 2012 18:23:15 +0000
> Subject: Re: [Racal6790GM] Anyone heard of this problem before ?
>
> Darrell,
>
> Check the +5.2 volt adjustment on the A7 card.
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: "Darrell" <dh1338@... <mailto:dh1338%40hotmail.com>>
> To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
> Subject: [Racal6790GM] Anyone heard of this problem before ?
> Date: Tue, 28 Feb 2012 03:23:52 -0000
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> --Forwarded Message Attachment--
> To: Racal6790GM@yahoogroups.com
> From: dh1338@...
> Date: Tue, 28 Feb 2012 03:23:52 +0000
> Subject: [Racal6790GM] Anyone heard of this problem before ?
>
> I just bought another 6790 and after having it on around 30 minutes
> the audio goes "scratchy" and the fault light starts to flicker. I
> have had it running on / off for a few days now and it only does it
> every once in awhile. Wondering if anyone may have had a similar problem ?

>
> Thanks, Darrell
>
>
>

1868. RE: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-02 21:07:43 UTC
From: darrell huth
Topic: 1854 Message: 1868

how long should the fault light stay on when first powered up ?

Mine will stay on for around 20-30 seconds when first powered on and then go out. After running awhile if I turn the radio off and then back on it will go out instantly ...Is this normal or indicative of a problem ?

Darrell

To: racal6790gm@yahoogroups.com
From: dh1338@...
Date: Fri, 2 Mar 2012 03:21:51 +0000
Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Gary:

Thanks ! ... You were right on the money. Adjusted to 5.2V and now works perfect.

Darrell

To: Racal6790GM@yahoogroups.com
From: gewingerd@...
Date: Tue, 28 Feb 2012 18:23:15 +0000
Subject: Re: [Racal6790GM] Anyone heard of this problem before ?

Darrell,

Check the +5.2 volt adjustment on the A7 card.

Thanks,

Gary

Please note: message attached

From: "Darrell" <dh1338@...m>

To: Racal6790GM@yahoogroups.com

Subject: [Racal6790GM] Anyone heard of this problem before ?

Date: Tue, 28 Feb 2012 03:23:52 -0000

--Forwarded Message Attachment--
To: Racal6790GM@yahoogroups.com
From: dh1338@...
Date: Tue, 28 Feb 2012 03:23:52 +0000
Subject: [Racal6790GM] Anyone heard of this problem before ?

I just bought another 6790 and after having it on around 30 minutes the audio goes "scratchy" and the fault light starts to flicker. I have had it running on / off for a few days now and it only does it every once in awhile. Wondering if anyone may have had a similar problem ?

Thanks, Darrell

1869. Re: Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-02 21:45:45 UTC
From: graham787
Topic: 1854   Message: 1869

Should be out after a second at the most .. may be the same pot ?

G.

--- In Racal6790GM@yahoogroups.com, darrell huth <dh1338@...> wrote:
>
>
> how long should the fault light stay on when first powered up ?
>
> Mine will stay on for around 20-30 seconds when first powered on and then go out. After running awhile if I turn the radio off and then back on it will go out instantly ...Is this normal or indicative of a problem ?
>
> Darrell
>
> To: racal6790gm@yahoogroups.com
> From: dh1338@...
> Date: Fri, 2 Mar 2012 03:21:51 +0000
> Subject: RE: [Racal6790GM] Anyone heard of this problem before ?
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> Gary:
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> Thanks ! ... You were right on the money. Adjusted to 5.2V and now works perfect.
>
> Darrell
>
> To: Racal6790GM@yahoogroups.com
> From: gewingerd@...
> Date: Tue, 28 Feb 2012 18:23:15 +0000
> Subject: Re: [Racal6790GM] Anyone heard of this problem before ?
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> Darrell,
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> Check the +5.2 volt adjustment on the A7 card.
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> Thanks,
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> Date: Tue, 28 Feb 2012 03:23:52 -0000
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> Subject: [Racal6790GM] Anyone heard of this problem before ?
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>
>
>
> Thanks, Darrell
>

1870. Re: Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-02 13:04:24 UTC
From: graham787
Topic: 1854 Message: 1870

Yes , I changed all the pots on the ma1723 isb generator board with new cased ones .. no problems since ... (yet)

G..

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 2/28/2012 2:52 PM, graham787 wrote:
> > Good advice , I have re set that a few times over the years, odd it should drift though ?
> >
> > G.
> >
> >
> Graham, I have seen the pot itself go a bit noisy which can cause
> intermittent problems or problems after shipping etc., Just adjusting
> it may often be enough to clear it up. It's not as bad as the little
> Bourns pots that racal used elsewhere; they can go completely open.
>
> 73 - Dan
>

1871. RE: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-03 17:51:53 UTC
From: gewingerd@netzero.com
Topic: 1854 Message: 1871
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1872. looking for cabinet

Yahoo group: Racal6790GM
Date: 2012-03-03 22:19:12 UTC
From: bob aaaaa
Topic: 1872 Message: 1872

Does anyone know where I can get a cabinet for the 6790 ? Thanks Robert

1873. Re: [Racal6790GM] looking for cabinet

Yahoo group: Racal6790GM
Date: 2012-03-03 22:49:28 UTC
From: Leigh
Topic: 1872 Message: 1873

Send me your e-mail and I'll send you soe pix's of what I have...

de Mike
K7PI
Mercer Island, WA

1874. Re: Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-03 21:39:10 UTC
From: graham787
Topic: 1854 Message: 1874

Q Is that mod in later models, as I have not seen the fault lamp stay on that length of time ?

G..

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Darrell,
>
> Up to 30 seconds is normal, the A8 card has a ECN that you can do to fix it if you want it faster. Remove C88 on the A8 card, this is a 5 PF cap by the 20 MHz crystal that gives you 40 MHz for the second mixer on the A2 card.
>
> "A8 OOL, Incorporate ECN to remove C88 due to crystal impedance."
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: darrell huth <dh1338@...>
> To: <racal6790gm@yahoogroups.com>
> Subject: RE: [Racal6790GM] Anyone heard of this problem before ?
> Date: Fri, 2 Mar 2012 21:07:43 +0000
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>
> how long should the fault light stay on when first powered up ?
>
> Mine will stay on for around 20-30 seconds when first powered on and then go out. After running awhile if I turn the radio off and then back on it will go out instantly ...Is this normal or indicative of a problem ?
>
> Darrell
>
> To: racal6790gm@yahoogroups.com
> From: dh1338@...
> Date: Fri, 2 Mar 2012 03:21:51 +0000
> Subject: RE: [Racal6790GM] Anyone heard of this problem before ?
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> Gary:
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> Thanks ! ... You were right on the money. Adjusted to 5.2V and now works perfect.
>
> Darrell
>
> To: Racal6790GM@yahoogroups.com
> From: gewingerd@...
> Date: Tue, 28 Feb 2012 18:23:15 +0000
> Subject: Re: [Racal6790GM] Anyone heard of this problem before ?
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> Darrell,
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> Check the +5.2 volt adjustment on the A7 card.
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> Thanks,
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> Gary
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> Please note: message attached
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> From: "Darrell" <dh1338@...>
>
> To: Racal6790GM@yahoogroups.com
>
> Subject: [Racal6790GM] Anyone heard of this problem before ?
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> Date: Tue, 28 Feb 2012 03:23:52 -0000
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> --Forwarded Message Attachment--
> To: Racal6790GM@yahoogroups.com
> From: dh1338@...
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>

>
>
> Thanks, Darrell
>

1875. Re: [Racal6790GM] looking for cabinet

Yahoo group: Racal6790GM
Date: 2012-03-04 00:29:28 UTC
From: bob aaaaa
Topic: 1872 Message: 1875

bikerfan80@...

On Sat, Mar 3, 2012 5:49 PM EST Leigh wrote:

>Send me your e-mail and I'll send you soe pix's of what I have...
>
>de Mike
>K7PI
>Mercer Island, WA

1876. Re: [Racal6790GM] Re: Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-04 01:14:55 UTC
From: gewingerd@netzero.com
Topic: 1854 Message: 1876
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1877. RE: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-04 23:56:20 UTC
From: darrell huth
Topic: 1854 Message: 1877

Gary:

Thanks for the info.

I also noticed that the audio is very bad until the fault light goes out (around 30 seconds) and then it clears up ...Will this mod help ?

I am having trouble finding the cap you mentioned near the 20 mhz xtal.

Darrell

To: Racal6790GM@yahoogroups.com
From: gewingerd@...
Date: Sat, 3 Mar 2012 17:51:53 +0000
Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Darrell,

Up to 30 seconds is normal, the A8 card has a ECN that you can do to fix it if you want it faster. Remove C88 on the A8 card, this is a 5 PF cap by the 20 MHz crystal that gives you 40 MHz for the second mixer on the A2 card.

"A8 OOL, Incorporate ECN to remove C88 due to crystal impedance."

Thanks,

Gary

Please note: message attached

From: darrell huth <dh1338@...>

To: <racal6790gm@yahoogroups.com>

Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Date: Fri, 2 Mar 2012 21:07:43 +0000

--Forwarded Message Attachment--
To: racal6790gm@yahoogroups.com
From: dh1338@...
Date: Fri, 2 Mar 2012 21:07:43 +0000
Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

how long should the fault light stay on when first powered up ?

Mine will stay on for around 20-30 seconds when first powered on and then go out. After running awhile if I turn the radio off and then back on it will go out instantly ...Is this normal or indicative of a problem ?

Darrell

To: racal6790gm@yahoogroups.com
From: dh1338@...
Date: Fri, 2 Mar 2012 03:21:51 +0000
Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Gary:

Thanks ! ... You were right on the money. Adjusted to 5.2V and now works perfect.

Darrell

To: Racal6790GM@yahoogroups.com
From: gewingerd@...
Date: Tue, 28 Feb 2012 18:23:15 +0000
Subject: Re: [Racal6790GM] Anyone heard of this problem before ?

Darrell,

Check the +5.2 volt adjustment on the A7 card.

Thanks,

Gary

Please note: message attached

From: "Darrell" <dh1338@...>

To: Racal6790GM@yahoogroups.com

Subject: [Racal6790GM] Anyone heard of this problem before ?

Date: Tue, 28 Feb 2012 03:23:52 -0000

--Forwarded Message Attachment--
To: Racal6790GM@yahoogroups.com
From: dh1338@...
Date: Tue, 28 Feb 2012 03:23:52 +0000
Subject: [Racal6790GM] Anyone heard of this problem before ?

I just bought another 6790 and after having it on around 30 minutes the audio goes "scratchy" and the fault light starts to flicker. I have had it running on / off for a few days now and it only does it every once in awhile. Wondering if anyone may have had a similar problem ?

Thanks, Darrell

1878. RE: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-05 00:42:44 UTC
From: gewingerd@netzero.com
Topic: 1854 Message: 1878
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1879. RE: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-05 00:47:48 UTC
From: darrell huth
Topic: 1854 Message: 1879

?Gary:

There are 5 caps (all brown) around the xtal but they are all the same.

Darrell

To: Racal6790GM@yahoogroups.com
From: gewingerd@netzero.com
Date: Mon, 5 Mar 2012 00:42:44 +0000
Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Darrell,

This should help, check around the crystal there should be 5 caps the same physical size, one of these will be C88. I will see if I can find a layout of the circuit.

Also check the +5.2 volt setting on the A7 card.

Thanks,

Gary

Please note: message attached

From: darrell huth <dh1338@...>

To: 6790 group <racal6790gm@yahoogroups.com>

Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Date: Sun, 4 Mar 2012 23:56:20 +0000

--Forwarded Message Attachment--
To: racal6790gm@yahoogroups.com
From: dh1338@...
Date: Sun, 4 Mar 2012 23:56:20 +0000
Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Gary:

Thanks for the info.

I also noticed that the audio is very bad until the fault light goes out (around 30 seconds) and then it clears up ...Will this mod help ?

I am having trouble finding the cap you mentioned near the 20 mhz xtal.

Darrell

To: Racal6790GM@yahoogroups.com
From: gewingerd@...
Date: Sat, 3 Mar 2012 17:51:53 +0000
Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Darrell,

Up to 30 seconds is normal, the A8 card has a ECN that you can do to fix it if you want it faster. Remove C88 on the A8 card, this is a 5 PF cap by the 20 MHz crystal that gives you 40 MHz for the second mixer on the A2 card.

"A8 OOL, Incorporate ECN to remove C88 due to crystal impedance."

Thanks,

Gary

Please note: message attached

From: darrell huth <dh1338@...>

To: <racal6790gm@yahoogroups.com>

Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Date: Fri, 2 Mar 2012 21:07:43 +0000

--Forwarded Message Attachment--
To: racal6790gm@yahoogroups.com
From: dh1338@...
Date: Fri, 2 Mar 2012 21:07:43 +0000
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To: racal6790gm@yahoogroups.com
From: dh1338@...
Date: Fri, 2 Mar 2012 03:21:51 +0000
Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Gary:

Thanks ! ... You were right on the money. Adjusted to 5.2V and now works perfect.

Darrell

To: Racal6790GM@yahoogroups.com
From: gewingerd@...
Date: Tue, 28 Feb 2012 18:23:15 +0000
Subject: Re: [Racal6790GM] Anyone heard of this problem before ?

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Thanks, Darrell

1880. Re: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-05 01:06:04 UTC
From: mparkinson1
Topic: 1854 Message: 1880

Darrell
don't tell me this receiver will show up at the swap meet.
I beleive I just saw you and one of the swapmeets a few weeks ago in your Smart Car. Eh
Matt Parkinson Military Equipment & R 390A Depot Center

1881. Ra1792 A6A2 and A4 filters

Yahoo group: Racal6790GM
Date: 2012-03-05 11:11:31 UTC
From: mummyshortlegs@waitrose.com
Topic: 1881 Message: 1881

Hi all.My A6A2 schematic indicates provision for a link between J2 pin24 and pin 28 - is this used when no A6a1 plugged in? both my rx A6A2 and spare A6A2 have a piggy back A6A2A1 ST85361 board with CD40178E chip.what does it do? Also, have spare A4 board with 3 blue Collins filters fitted. Cant make out any bandwith markings, is 526 9957 010 8007 a 1khz, 526 9957 020 8009 a 3.3khz and 526 8326 010 8037 a 6khz? Can I use them on a A4 currently fitted with ITT xtal filters or do I have to change the series 4K7 resistor and parallel capacitors? My manual is silent on these matters. Can anyone help? kind regards Kevin G3ZMC

1882. Re: [Racal6790GM] Ra1792 A6A2 and A4 filters

Yahoo group: Racal6790GM
Date: 2012-03-05 11:44:23 UTC
From: Phill Simmons
Topic: 1881 Message: 1882
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Kevin,
I am attaching the leaflet for the 6111 mod (A6A2A1) board.
Rgds,
Phill

From: "mummyshortlegs@waitrose.com" <mummyshortlegs@...>
To: Racal6790GM@yahoogroups.com
Sent: Monday, 5 March 2012, 11:11
Subject: [Racal6790GM] Ra1792 A6A2 and A4 filters

Hi all.My A6A2 schematic indicates provision for a link between J2 pin24 and pin 28 - is this used when no A6a1 plugged in? both my rx A6A2 and spare A6A2 have a piggy back A6A2A1 ST85361 board with CD40178E chip.what does it do? Also, have spare A4 board with 3 blue Collins filters fitted. Cant make out any bandwith markings, is 526 9957 010 8007 a 1khz, 526 9957 020 8009 a 3.3khz and 526 8326 010 8037 a 6khz? Can I use them on a A4 currently fitted with ITT xtal filters or do I have to change the series 4K7 resistor and parallel capacitors? My manual is silent on these matters. Can anyone help? kind regards Kevin G3ZMC

1883. Re: [Racal6790GM] Ra1792 A6A2 and A4 filters

Yahoo group: Racal6790GM
Date: 2012-03-05 16:00:58 UTC
From: Dan Rae
Topic: 1881 Message: 1883

On 3/5/2012 3:11 AM, mummyshortlegs@... wrote:
>
>
> Hi all.My A6A2 schematic indicates provision for a link between J2
> pin24 and pin 28 - is this used when no A6a1 plugged in? both my rx
> A6A2 and spare A6A2 have a piggy back A6A2A1 ST85361 board with
> CD40178E chip.what does it do?
It delays the turn on process. No idea about the link.
> Also, have spare A4 board with 3 blue Collins filters fitted. Cant
> make out any bandwith markings, is 526 9957 010 8007 a 1khz, 526 9957
> 020 8009 a 3.3khz and 526 8326 010 8037 a 6khz? Can I use them on a A4
> currently fitted with ITT xtal filters or do I have to change the
> series 4K7 resistor and parallel capacitors? My manual is silent on
> these matters. Can anyone help?
Your manual may be silent perhaps because it doesn't think it's a very
good idea :^)

You can exchange the crystal filters for the Collins ones if you also transplant the matching capacitors, which are all the same value for the ITT crystal variety, but different and width specific for the mechanical filters. This is not easy because of the thickness of the board and the plated through holes. There is also not a lot of point because the two kinds of filter have very similar performance. The Rs remain the same.

HOWEVER, there is a big snag if you want to change the bandwidths. The filter bandwidths displayed for each slot are set by data statements in the eproms. These can be located and altered if you know what you are doing and have the equipment needed to edit and re-write them. What I have never found out how to do is to do this in the two eprom versions and then also alter the checksum at the end so that it will not fail the BITE test for a correct checksum. But in the three eprom versions it is simple enough and I have done it after fitting, for example, a ceramic filter in the FL7 position to give a 9 kHz AM width.

I have no idea without research what your blue filters are, except to note that the last number groups are a date code: 8007 is week 7 of 1980 and so on. Normally the A4 boards fitted with mechanical filters would have the standard 6 filter GB set or the 5 filter GA set.

73 - Dan

ac6ao / g3ncr

1884. RA1792 A6A2 and A4 filters

Yahoo group: Racal6790GM
Date: 2012-03-05 17:59:29 UTC
From: mummyshortlegs@waitrose.com
Topic: 1884 Message: 1884

Many thanks Phil,all is revealed. Wonder why the Mostek 8053 caused more probs than Fairchild version. Reading up on this chip family got confused, is there any differance beteen Fairchild 3850 and F3850 and F8 3850 CPU? Many thanks Dan, will take each Collins off scrap board with its respective capacitors and put em on my wobulator. Regards to all Kevin

1885. Re: [Racal6790GM] RA1792 A6A2 and A4 filters

Yahoo group: Racal6790GM
Date: 2012-03-05 18:20:21 UTC
From: Phill Simmons
Topic: 1884 Message: 1885

Hi Kevin,
The main problem was the siver plating on the Mostek IC pins, after some time these became tarnished and high resistance sets in.
A good clean sorts out the problem.
I have other Racal leaflets that describe cleaning the pins with Goddard's Silver polish, or better still chuck the two ICs in when you do the silver tea set, hi.
From my own past experiences I have always removed the A6A2A1 board as it is not really needed.
Mostek stopped plating the pins on later issues of the CPU/SMI ICs but by this time Racal had moved entirely over to Fairchilds F8 pair.
This problem only really happened with socket type IC palcement, Hard soldering will stop this from occuring.
Best regards,
Phill

From: "mummyshortlegs@..." <mummyshortlegs@...>
To: Racal6790GM@yahoogroups.com
Sent: Monday, 5 March 2012, 17:59
Subject: [Racal6790GM] RA1792 A6A2 and A4 filters

Many thanks Phil,all is revealed. Wonder why the Mostek 8053 caused more probs than Fairchild version. Reading up on this chip family got confused, is there any differance beteen Fairchild 3850 and F3850 and F8 3850 CPU? Many thanks Dan, will take each Collins off scrap board with its respective capacitors and put em on my wobulator. Regards to all
Kevin

1886. RE: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-06 03:39:10 UTC
From: darrell huth
Topic: 1854 Message: 1886

Matt:

This one will go in my rack. 6790's seem to have gone down in value a bit over the last several years but in my opinion they are still one of the best (and most reliable) receivers out there.

I remember back in 1991 I saw an ad in the local paper for a "block garage sale" one Saturday morning. One of the things mentioned was ham radio equipment.

That Saturday morning it was raining . I went to the street it was supposed to be on and there were no sales so I started knocking on doors asking who had the ham equipment. Finally a woman told me to check with the man across the street. I knocked on his door and woke him up out of bed.....Glad I did. Turns out he was a former Racal rep and took me to his garage. There sat a "like new" 6790 with all the options and the matching speaker ! (this was a few years before the 6790's hit the USA market and I had never even seen one before) ...I was in awe. He told me he would have to get at least 250.00 for it and I remember my hands shaking as I was handing him the money.

Those were the days.

To: Racal6790GM@yahoogroups.com
From: mparkinson1@socal.rr.com
Date: Sun, 4 Mar 2012 17:06:04 -0800
Subject: Re: [Racal6790GM] Anyone heard of this problem before ?

Darrell
don't tell me this receiver will show up at the
swap meet.
I beleive I just saw you and one of the swapmeets a
few weeks ago in your Smart Car. Eh
Matt Parkinson Military Equipment & R 390A
Depot Center

1887. Re: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-06 04:04:57 UTC
From: mparkinson1
Topic: 1854 Message: 1887

Darrell
Now only if I can get you to take that R 390a out of the rack and break it down to take care of the RF deck issue its a lot of fun if you have the time.
Oh I have several of the 6790s in my garage I need to get to most are just for parts I have a couple of good working ones.
One is a LF version.
Matt Parkinson Military Equipment & R 390A Depot Center

1888. RE: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-11 00:01:45 UTC
From: darrell huth
Topic: 1854 Message: 1888

Gary:

Any luck with ID'ing C88 on the A8 card ?

I did check the 5.2V , both when cold and after warming up awhile, It is a solid 5.2V and never changes.

The fault light stays on for around 30 seconds. During this time the receive audio is distorted. Once the light goes out the audio clears up.

Darrell

To: Racal6790GM@yahoogroups.com
From: gewingerd@...m
Date: Sat, 3 Mar 2012 17:51:53 +0000
Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Darrell,

Up to 30 seconds is normal, the A8 card has a ECN that you can do to fix it if you want it faster. Remove C88 on the A8 card, this is a 5 PF cap by the 20 MHz crystal that gives you 40 MHz for the second mixer on the A2 card.

"A8 OOL, Incorporate ECN to remove C88 due to crystal impedance."

Thanks,

Gary

Please note: message attached

From: darrell huth <dh1338@...>

To: <racal6790gm@yahoogroups.com>

Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Date: Fri, 2 Mar 2012 21:07:43 +0000

--Forwarded Message Attachment--
To: racal6790gm@yahoogroups.com
From: dh1338@hotmail.com
Date: Fri, 2 Mar 2012 21:07:43 +0000
Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

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From: dh1338@...
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Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Gary:

Thanks ! ... You were right on the money. Adjusted to 5.2V and now works perfect.

Darrell

To: Racal6790GM@yahoogroups.com
From: gewingerd@netzero.com
Date: Tue, 28 Feb 2012 18:23:15 +0000
Subject: Re: [Racal6790GM] Anyone heard of this problem before ?

Darrell,

Check the +5.2 volt adjustment on the A7 card.

Thanks,

Gary

Please note: message attached

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To: Racal6790GM@yahoogroups.com

Subject: [Racal6790GM] Anyone heard of this problem before ?

Date: Tue, 28 Feb 2012 03:23:52 -0000

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To: Racal6790GM@yahoogroups.com
From: dh1338@...
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Thanks, Darrell

1889. Re: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-11 00:58:10 UTC
From: G ..
Topic: 1854 Message: 1889

I would start looking to see which lamps are lit on the back of the front board , the distortion is probably FM caused by loop jitter ....mine did that , when the 5.2 v was only just off , ssb sounded slightly gritty

G.

From: darrell huth
Sent: Sunday, March 11, 2012 12:01 AM
To: 6790 group
Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Gary:

Any luck with ID'ing C88 on the A8 card ?

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The fault light stays on for around 30 seconds. During this time the receive audio is distorted. Once the light goes out the audio clears up.

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"A8 OOL, Incorporate ECN to remove C88 due to crystal impedance."

Thanks,
Gary

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Date: Tue, 28 Feb 2012 18:23:15 +0000
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Thanks,
Gary

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Thanks, Darrell

1890. RE: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-11 11:04:45 UTC
From: gewingerd@netzero.com
Topic: 1854 Message: 1890
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1891. Re: [Racal6790GM] Anyone heard of this problem before ?

Yahoo group: Racal6790GM
Date: 2012-03-11 11:29:43 UTC
From: BW PITMAN
Topic: 1854 Message: 1891

I had a similar audio distortion problem with my RA 1792, this turned out to be an initial warm up drift of the master 5MHz local oscillator. The effect was particularly noticeable on SSB where the excellent IF filters results in the actual IF not being aligned with the filters. You need a good frequency counter, at least with a resolution of 10Hz to detect the error. I found that an initial drift of a few 10s of hertz caused the audio effect to be noticed and at say around a 200 Hertz difference (5.000200 Hz) the fault indicator would come on.

From: darrell huth <dh1338@...>
To: 6790 group <racal6790gm@yahoogroups.com>
Sent: Sunday, 11 March 2012, 0:01
Subject: RE: [Racal6790GM] Anyone heard of this problem before ?

Gary:

Any luck with ID'ing C88 on the A8 card ?

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Thanks, Darrell

1892. New to group and a question about noise blankers

Yahoo group: Racal6790GM
Date: 2012-03-14 16:51:25 UTC
From: stenstro
Topic: 1892 Message: 1892

Hello All. I am new to this group. I was pleased to find it when I was Goggling to learn about noise blankers for this radio. I recently acquired a Racal 6790/GM and it seems to be in great shape. The claims of stability and quietness are all true! I sent it to Gary Wingerd for an alignment - I had no symptoms of any problems - just figured it was a good idea before I invested a lot of time into the radio. He found a mod to the audio that he said wasn't necessary so he "unmodded" it and indeed the audio improved. It's a pain to pack up the radio and ship it, but I recommend the service.

I am wondering about a noise blanker. I found the Dallas Langford write up and the notes about parts availability. I am seeking advice on the wisdom of building such a blanker. I can and do build things but time is always limiting, so I am wondering about the best solution. I have considered purchasing an audio DSP device, like the Timewave, but I am not sure which would be a better approach.

I live in west LA and there are lots of urban noise sources, so I put the noise blankers on my other equipment to good use.

I also saw a post saying this radio was "hard to mute" during transmission, and I wondering if anyone has any recommendations.

Thanks

MK Stenstrom, K6OIX

1893. RE: [Racal6790GM] New to group and a question about noise blankers

Yahoo group: Racal6790GM
Date: 2012-03-14 17:04:51 UTC
From: Carcia, Francis A HS
Topic: 1892 Message: 1893

Buy a “softrock” SDR set up to receive 455 KHz IF and then you can run Flex software or any number of other software packages. The softrock down converts the 455 KHz IF to 11kHz I/Q channels you feed into a sound card. I Homebrewed a converter and mounted it into my RA6830. It works very well as a software demodulator with good filter and noise blanker functions. I think the kits are under $20 Tony Parks sells the kits on the net. I don’t think you can buy the part Dallas used.

Frank WA1GFZ

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of stenstro
Sent: Wednesday, March 14, 2012 12:51 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] New to group and a question about noise blankers

Hello All. I am new to this group. I was pleased to find it when I was Goggling to learn about noise blankers for this radio. I recently acquired a Racal 6790/GM and it seems to be in great shape. The claims of stability and quietness are all true! I sent it to Gary Wingerd for an alignment - I had no symptoms of any problems - just figured it was a good idea before I invested a lot of time into the radio. He found a mod to the audio that he said wasn't necessary so he "unmodded" it and indeed the audio improved. It's a pain to pack up the radio and ship it, but I recommend the service.

I am wondering about a noise blanker. I found the Dallas Langford write up and the notes about parts availability. I am seeking advice on the wisdom of building such a blanker. I can and do build things but time is always limiting, so I am wondering about the best solution. I have considered purchasing an audio DSP device, like the Timewave, but I am not sure which would be a better approach.

I live in west LA and there are lots of urban noise sources, so I put the noise blankers on my other equipment to good use.

I also saw a post saying this radio was "hard to mute" during transmission, and I wondering if anyone has any recommendations.

Thanks

MK Stenstrom, K6OIX

1894. RE: [Racal6790GM] New to group and a question about noise blankers

Yahoo group: Racal6790GM
Date: 2012-03-14 17:05:41 UTC
From: Carcia, Francis A HS
Topic: 1892 Message: 1894

I lived in Lawndale so know your problem…

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of stenstro
Sent: Wednesday, March 14, 2012 12:51 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] New to group and a question about noise blankers

Hello All. I am new to this group. I was pleased to find it when I was Goggling to learn about noise blankers for this radio. I recently acquired a Racal 6790/GM and it seems to be in great shape. The claims of stability and quietness are all true! I sent it to Gary Wingerd for an alignment - I had no symptoms of any problems - just figured it was a good idea before I invested a lot of time into the radio. He found a mod to the audio that he said wasn't necessary so he "unmodded" it and indeed the audio improved. It's a pain to pack up the radio and ship it, but I recommend the service.

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I also saw a post saying this radio was "hard to mute" during transmission, and I wondering if anyone has any recommendations.

Thanks

MK Stenstrom, K6OIX

1895. Re: [Racal6790GM] New to group and a question about noise blankers

Yahoo group: Racal6790GM
Date: 2012-03-14 17:46:16 UTC
From: Dan Rae
Topic: 1892 Message: 1895

On 3/14/2012 9:51 AM, stenstro wrote:
> I live in west LA and there are lots of urban noise sources,
I live in Santa Monica and find that the sort of impulse noise blanker that Dallas designed is of no use whatsoever against the sort of barrage of crud from people's TV sets and everything else you hear all the time. For SCE's arcing overhead wires it does help a bit.

But nothing will help you find the part he used which is long obsolete.
>
> I also saw a post saying this radio was "hard to mute" during transmission, and I wondering if anyone has any recommendations.
You can fit a reed relay across the antenna input to disconnect and short it to ground for some sort of protection, and having Gary fix a blown first mixer will not be cheap, so it's worth thinking about. Be aware that the GM was designed to be used in multi receiver installations with protection in front of it and so the built in protection found in all the other receivers Racal made is lamentably absent, unless you have the A1 RF amp module option fitted which does have protection and a muting relay inside. The amplifiers are scarce but those from the UK RA1792 can be fitted if you can find one of those.

73 - Dan

ac6ao

1896. Re: [Racal6790GM] New to group and a question about noise blankers

Yahoo group: Racal6790GM
Date: 2012-03-14 17:46:45 UTC
From: John Reed
Topic: 1892 Message: 1896

That Dallas noise blanker chip is obsolete and no longer available. I don't think that an audio DSP filter will do a lot for your noise problem. An IF DSP setup with noise blanker should work but I haven't tried that method.

John Reed

----- Original Message -----
From: stenstro
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, March 14, 2012 10:51 AM
Subject: [Racal6790GM] New to group and a question about noise blankers

Hello All. I am new to this group. I was pleased to find it when I was Goggling to learn about noise blankers for this radio. I recently acquired a Racal 6790/GM and it seems to be in great shape. The claims of stability and quietness are all true! I sent it to Gary Wingerd for an alignment - I had no symptoms of any problems - just figured it was a good idea before I invested a lot of time into the radio. He found a mod to the audio that he said wasn't necessary so he "unmodded" it and indeed the audio improved. It's a pain to pack up the radio and ship it, but I recommend the service.

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I also saw a post saying this radio was "hard to mute" during transmission, and I wondering if anyone has any recommendations.

Thanks

MK Stenstrom, K6OIX

1897. RE: [Racal6790GM] New to group and a question about noise blankers

Yahoo group: Racal6790GM
Date: 2012-03-14 17:54:30 UTC
From: Carcia, Francis A HS
Topic: 1892 Message: 1897

You will love the SDR FFT spectrum display. Also consider going to the Lankford Antenna site and build some directive RX antennas. I have some 30 foot base 15 foot high loaded delta loops in my yard. One faces west and the other east.

K9AY also good but won’t cover as broad a range as single loaded delta loops. frank

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of John Reed
Sent: Wednesday, March 14, 2012 1:47 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] New to group and a question about noise blankers

That Dallas noise blanker chip is obsolete and no longer available. I don't think that an audio DSP filter will do a lot for your noise problem. An IF DSP setup with noise blanker should work but I haven't tried that method.

John Reed

----- Original Message -----

From: stenstro <mailto:stenstro@...>

To: Racal6790GM@yahoogroups.com

Sent: Wednesday, March 14, 2012 10:51 AM

Subject: [Racal6790GM] New to group and a question about noise blankers

Hello All. I am new to this group. I was pleased to find it when I was Goggling to learn about noise blankers for this radio. I recently acquired a Racal 6790/GM and it seems to be in great shape. The claims of stability and quietness are all true! I sent it to Gary Wingerd for an alignment - I had no symptoms of any problems - just figured it was a good idea before I invested a lot of time into the radio. He found a mod to the audio that he said wasn't necessary so he "unmodded" it and indeed the audio improved. It's a pain to pack up the radio and ship it, but I recommend the service.

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Thanks

MK Stenstrom, K6OIX

1898. Re: [Racal6790GM] New to group and a question about noise blankers

Yahoo group: Racal6790GM
Date: 2012-03-14 18:01:51 UTC
From: G ..
Topic: 1892 Message: 1898

Mute

You can use the diversity agc access , perhaps not quite as intended, but will mute the rx , needs to also re-set the agc to restore the gain after the mute , or end up with a dead zone , check the article by Larry N6NC.

Noise blanking

Depends on the type of noise, I use a Soft-rock 455KHz (tnx L) D/A with various software demodulation packages, some of these do a good job , even resolving ssb past the cut-off level of the radios own decoder .....

With a eye to the future value of the radio , anything that requires more than a plug in , speaking from experience of modding ww2 kit while at school , only to find the same set is now worth big $ not hacked with .. I would pass that by !

Its a good radio , maintainable , spurious free , but no spring chicken .

G..

From: stenstro
Sent: Wednesday, March 14, 2012 4:51 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] New to group and a question about noise blankers

Hello All. I am new to this group. I was pleased to find it when I was Goggling to learn about noise blankers for this radio. I recently acquired a Racal 6790/GM and it seems to be in great shape. The claims of stability and quietness are all true! I sent it to Gary Wingerd for an alignment - I had no symptoms of any problems - just figured it was a good idea before I invested a lot of time into the radio. He found a mod to the audio that he said wasn't necessary so he "unmodded" it and indeed the audio improved. It's a pain to pack up the radio and ship it, but I recommend the service.

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Thanks

MK Stenstrom, K6OIX

1899. Noise Blanker/DSP/protection on transmit

Yahoo group: Racal6790GM
Date: 2012-03-16 22:27:21 UTC
From: H Lawrence Serra
Topic: 1899 Message: 1899
Attachments: 2 described; binary payloads are missing from this source WARC

MK-

I have a 6790 and went through the same dilemma. I wouldn't bother with the Dallas Lankford noise blanker, and he says in a later article it didn't work so well.

Also, you should determine whether you need a true noise blanker (which eliminates stuff like ignition pulses) or a DSP (which can eliminate virtually all regular background noise). I live in La Jolla down the road from you, and our urban noise sources are likely similar.

I simply got off the shelf my old JPS NIR-12 DSP and ran an RG-164 thin coax cable from the RS-232 port Pin 18 (Loudspeaker output) to the input of the NIR-12. Then I run a similar coax to a Radio Shack spkr with a small switch in line to turn it off If I want to use headphones from the jack on the NIR-12. I do mostly CW work, so the "Dynamic Peak" mode on the NIR-12 works great to eliminate most local noise
and produces a clean CW signal. It also works for SSB and AM.

For protection of the 6790 on transmit, I had Gary Wingerd install a "hang-timer" inside the 6790, its trigger brought out to an RCA jack on the 6790 rear panel. As soon as my rig starts to key, the rig's AUX or KEY OUT jack's relay grounds the trigger for the hang timer, and the 6790's ANT input relay is opened and hangs open for an adjustable delay time which you can set. I have the same type of hang-timer to protect my SDR-IQ CW skimmer radio when I transmit. (Schematic attached.) My 6790 has the RF AMP board with the ANT T/R relay, but I found it did not operate fast and regularly enough to follow QSK CW, and burned my front end FETs, which were expensive to fix.

I also added an "AGC swamper" ckt to the 6790 which--on key down-- swamps the AGC
like turning the IF Gain all the way down. Graham G0NBD designed it and I
built it breadboard style. Article attached.)

73,

Larry N6NC

1900. Noise blanker and muting during transmission

Yahoo group: Racal6790GM
Date: 2012-03-21 04:23:19 UTC
From: stenstro
Topic: 1900 Message: 1900

I was really impressed with the number and types of responses to my inquiry. The responses helped a lot.

There is a consensus among the responses that the Lankford noise blanker doesn't work so well but more importantly that I probably need something else. Also that a key part is not available. I'll look into the DSP accessories that more than one person recommended.
Also the use of the AGC input to mute the receiver.

One person suggested a reed relay to disconnect the antenna during transmit. I have an antenna splitter that I can use to connect several receivers in parallel to try to hear the weak stations. I built a reed relay into it to disconnect the common input from the antenna and ground it during transmit. At least that keep any strong RF out of the receivers.

I used a similar relay to adapt my Kenwood 922 to QSK.

I intend to check into the group ever two or three days. Thanks for the help and maybe I'll see you on the air.

MK Stenstrom
K6OIX.

1901. RE: [Racal6790GM] Noise blanker and muting during transmission

Yahoo group: Racal6790GM
Date: 2012-03-21 13:29:48 UTC
From: Carcia, Francis A HS
Topic: 1900 Message: 1901

AGC will not protect the first mixer from burn out. A relay that shorts the RX and to ground during TX is the safest method and will drop the leakage into the RX to a safe level.

High noise I use the Fast AGC position.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of stenstro
Sent: Wednesday, March 21, 2012 12:23 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Noise blanker and muting during transmission

I was really impressed with the number and types of responses to my inquiry. The responses helped a lot.

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MK Stenstrom
K6OIX.

1902. Re: [Racal6790GM] Digest Number 729

Yahoo group: Racal6790GM
Date: 2012-03-21 14:41:51 UTC
From: H Lawrence Serra
Topic: 1902 Message: 1902

MK-

FYI, I tried the DSP (NIR-12) on SSB xmsns on 80m last night, and it worked great to get rid of the regular local background noise. Lankford has a simple ckt to extend the LONG hang time for the AGC which I had installed for SW broadcasts and rag chew SSB. It is switchable in and out, and works great, too.

73, Larry N6NC

--- On Wed, 3/21/12, Racal6790GM@yahoogroups.com <Racal6790GM@yahoogroups.com> wrote:

From: Racal6790GM@yahoogroups.com <Racal6790GM@yahoogroups.com>
Subject: [Racal6790GM] Digest Number 729
To: Racal6790GM@yahoogroups.com
Date: Wednesday, March 21, 2012, 4:31 AM

Racal 6790/GM

Messages In This Digest (1 Message)

1.
Noise blanker and muting during transmission From: stenstro
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Message

1.

Noise blanker and muting during transmission
Posted by: "stenstro" stenstro@... stenstro
Tue Mar 20, 2012 9:23 pm (PDT)

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1903. Re: Digest Number 729

Yahoo group: Racal6790GM
Date: 2012-04-03 02:48:17 UTC
From: stenstro
Topic: 1902 Message: 1903

Thanks for the information. I am looking for the NIR-12. It's no longer in production - I think you knew that, but I have my searches on the used sites. I've read a few good comments on the Timewave 599 and the 6790/GM.

I don't see a reference or a link for the AGC long hang time circuit you cite. Do you have it or can you point me to it?

Thanks

MKS, K60IX

--- In Racal6790GM@yahoogroups.com, H Lawrence Serra <hlserra@...> wrote:
>
> MK-
> ï¿½
> FYI, I tried the DSP (NIR-12) on SSB xmsns on 80m last night, and it worked great to get rid of the regular local background noise. Lankford has a simple ckt to extend the LONG hang time for the AGC which I had installed for SW broadcasts and rag chew SSB. It is switchable in and out, and works great, too.
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> To: Racal6790GM@yahoogroups.com
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> Racal 6790/GM
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> Messages In This Digest (1 Message)
>
>
> 1.
> Noise blanker and muting during transmission From: stenstro
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> Message
>
>
> 1.
>
> Noise blanker and muting during transmission
> Posted by: "stenstro" stenstro@... ï¿½ stenstro
> Tue Marï¿½20,ï¿½2012 9:23ï¿½pm (PDT)
>
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> I was really impressed with the number and types of responses to my inquiry. The responses helped a lot.
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> MK Stenstrom
> K6OIX.
>
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1904. Re: RA1792 software bug? (MED agc and BFO freq)

Yahoo group: Racal6790GM
Date: 2012-04-05 14:23:54 UTC
From: ra1792fan
Topic: 1784 Message: 1904

Hi Ray, did you ever fix your rx? i had exactly the same symptons yesterday on an 3 prom early RA1792. Turned out to be a initialise/reset problem on the CPU. My A6A2 had piggy back board A6A2A1 mod 6111 (see Phill's post 1882) and the green wire was falling off pin 37 of U1 on the back of the A6A2 board.regards Kevin G3ZMC

--- In Racal6790GM@yahoogroups.com, "vk2ilv" <robinson@...> wrote:
>
> hi there,
>
> I may have a software problem,
> the CPU is the 3 ROM version,
> P80969/10A, and 08-A, and 00-A,
> all ISSUE 1 8034.
>
> The receiver works fine,
> and passes the BITE test.
> It works OK for LSB and USB.
>
> It works OK for the other modes
> but the display behaves strangely.
> When I select AM or CW or FM
> the MED time constant is selected for AGC,
> and the display shows it on,
> even when I press SHORT, MED, or LONG,
> and you can here the time constant changing,
> the SHORT and LONG are displayed,
> but the MED is always displayed.
> However,
> the BW display on the right just shows 10,
> not 10khz, just 10,
> and there is no 10khz filter fitted.
> Then when I press any bandwidth button,
> the chosen BW is displayed, the MED goes away.
> Then the SHORT, MED, LONG are displayed
> when the appropriate button is pressed.
>
> On CW the BFO freq is displayed as L.LK hz,
> and the beat note is wrong.
> The BFO has to be manually set
> (using the BFO button and the main knob).
>
> So it looks like the initial values are incorrectly loaded,
> or corrupted in ROM.
> When powered down,
> then up,

> the freq and BW are remembered,
> so I'm assuming the RAM is working.
>
> Has anyone seen this problem,
> or is it just my receiver dying?
>
> Regards
> Ray
>

1905. Re: Racal 1792 birdie

Yahoo group: Racal6790GM
Date: 2012-04-05 15:54:49 UTC
From: ra1792fan
Topic: 1789 Message: 1905

re post 1789, the 28mhz birdy was due to a spurious emission from the A6A2 card,both pins of the 2mhz timing crystal were securely soldered to their pads but the crystal can rocked on the pcb. closer inspection showed the seal between 1 pin and the case had failed. I assume this mechanical failure was causing the crystal to oscillate in some parasitic overtone mode in addition to chugging away quite happily at 2 mhz.Odd one huh?

1906. Re: [Racal6790GM] Re: RA1792 software bug? (MED agc and BFO freq)

Yahoo group: Racal6790GM
Date: 2012-04-08 07:14:12 UTC
From: robinson@tuberadio.com
Topic: 1784 Message: 1906

Hi Kevin,

yep
a reset fixed it.

Regards
ray

> Hi Ray, did you ever fix your rx? i had exactly the same symptons
> yesterday on an 3 prom early RA1792. Turned out to be a initialise/reset
> problem on the CPU. My A6A2 had piggy back board A6A2A1 mod 6111 (see
> Phill's post 1882) and the green wire was falling off pin 37 of U1 on the
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>> the BW display on the right just shows 10,
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>> Has anyone seen this problem,
>> or is it just my receiver dying?
>>
>> Regards
>> Ray
>>
>
>
>

1907. 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-10 17:56:07 UTC
From: dvd
Topic: 1907 Message: 1907

I have opportunity to buy one of that radios.

1792 supplied + the dedicated MA2232 panoramic Tuning Aid.

Owner sayed that 1792 was working well, but one day suddently lcd displayed only "0" and radio is still out of order.

He asks 320€ delivery included for both 1792 + panadapter.

other opportunity is the 6790/GM with the frequency display darkened but complety readable, radio turn on, but no other test was made.

price still not decide for this unit.

What are the most valuable radio between the 2?

and which performs better?

i am new in racal radio

thanks to who wants advise me

greetings to everybody

David

1908. Re: [Racal6790GM] 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-10 18:24:21 UTC
From: Rowland Hamly
Topic: 1907 Message: 1908

I have a 6790GM that is in perfect working condition. Tested and battery replaced(9/2010) by Gary Wingerd. With manual and power cord. The back edge of top was dented in shipping..can be straightened. Asking $650+shipping.
Rowland

--- On Tue, 4/10/12, dvd <dvd@fastwebnet.it> wrote:

From: dvd <dvd@...>
Subject: [Racal6790GM] 1792 or 6790GM
To: Racal6790GM@yahoogroups.com
Date: Tuesday, April 10, 2012, 5:56 PM

I have opportunity to buy one of that radios.
1792 supplied + the dedicated MA2232 panoramic Tuning Aid.
Owner sayed that 1792 was working well, but one day suddently lcd displayed only "0" and radio is still out of order.
He asks 320€ delivery included for both 1792 + panadapter.

other opportunity is the 6790/GM with the frequency display darkened but complety readable, radio turn on, but no other test was made.
price still not decide for this unit.

What are the most valuable radio between the 2?
and which performs better?
i am new in racal radio
thanks to who wants advise me
greetings to everybody
David

1909. Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-10 20:14:22 UTC
From: lc24cxx
Topic: 1907 Message: 1909

Thanks, but i don't want affoard int. shipping

David

--- In Racal6790GM@yahoogroups.com, Rowland Hamly <upnorthbookworm@...> wrote:
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1910. Re: [Racal6790GM] 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-10 22:00:49 UTC
From: casy_ch@tbwil.ch
Topic: 1907 Message: 1910

Hi David

It is difficult to say which one ist the best. The RA-1792 is UK made and the RA-6790 is US made. Personally I do not like the RA-6790 with its non tactile keypads (plastics pads) and prefer the nice keys of the RA-1792. With the time I changed my RA-6790 for a RA-6793 which has got "normal" keys as well but cost more than the RA-6790. Other than the keys they are the same receivers.

With my RA-1792 I have a MA-2232 as well. I think it was not worth for me as the display does not go far in the bandwidth displayed, a few kHz. The LCD display is not very readable if not at eyes height. That was probably thought for tuning in FAX and RTTY stations. For this purpose it is fine for tuning the tones. Racal UK had a nice Panorama display with a large displayed bandwidth called RA-1766A resp. B with an IF input of 1.4MHz and 100KHz. But in fact it has just the front panel of Racal, inside it is the Eddystone 1061A or B. All submodules are actually stamped with the Eddystone parts numbers.

By the way has the RA-1792 you can get a backlighted display or not. Without backlighting it is not very readable when not much room light falls onto it. Changing a non backlighted to a backlighted display is fastidious and also difficult to obtain. Not worth it.

For the "0" problem of the RA-1792 it could be the backup battery inside which should be changed. Are you ready to pay a repair should it not be the battery. The first thing to do it is to call the "byte" which will analyze the receiver and you could see around which module something is wrong. I sent one of mines to Telford Electronic in the UK for repair. That was not too expensive except the postage! I noticed in the past that in Italy these receivers are sold at a too high price compared to other countries. For the price you mention for both units but in the state the RA-1792 is, I would take the risk but not offer more than EUR 250 + shipping.

On the newsgroup read a bit the messages which will show what members had for problems. Luckily enough most of them live in the US. You will see that quite a few had their problems too. If you cannot have it repaired at your place, then it is the postage to the USA ! From Switzerland it is US$200.00.

Good luck and let us know how you went along

Jean-Claude

----- Original Message -----
From: dvd
To: Racal6790GM@yahoogroups.com
Sent: Tuesday, April 10, 2012 7:56 PM
Subject: [Racal6790GM] 1792 or 6790GM

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greetings to everybody

David

1911. Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-10 23:25:52 UTC
From: lc24cxx
Topic: 1907 Message: 1911

Can't wish for a better answer,

As i read both receivers seems are eletronically similar,and i guess they share the same receiver circuit.
But i think that a keypad is important for a non governament usage, so
i think i go for RA-1792, RA-6793 is too difficult to find.
MA-2232 is not so useful except for digital modes , is just something that gives more value for the deal, and if one day i am going to sell..
About backlight display i think that the unit doesn't has (need ask), but i saw from photos that lcd are good,anyway this site is selling cheap pin to pin compatible lcd
http://www.1792lcd.com

About "O" problem this worry me more than all, i am pretty sure that changing the battery and maybe clean spilled acid probably will resolve everythink, but if is not it will came hard to fix.
Needs some eprom must re-programmed when the battery is over ?
or just swap the battery with a new one?
i have an universal eeprom programmer and i saw some bin files here maybe they could be useful, but sincerly i hope that repearing will be not so deep.
Maybe in the future i can try to program some backup eeproms to expand the receiver coverage under 150khz.
Is the bite selftest running even if the radio shows "0"?
what makes me feel positive is that the owner sayed that the radio till 1 mounth ago worked perfectly than one day shows only "0"

this is a google cache link with actually photos of the radio :

http://webcache.googleusercontent.com/search?q=cache:6sSdw82klI4J:annunci.ebay.it/annunci/audio-tv-e-video/terni-annunci-terni/ricevitore-hf-racal/26992273+ebay+annunci+ricevitore+hf+racal&cd=1&hl=it&ct=clnk&gl=it

Unit has this info written in the back

OPTION GB - S2 - S - D - I - A
HF RECEIVER
DRG N. ST80730
SERIAL N. 991X

seems is not an old version, serial is close to 10000 i can't understand which options are installed, and for sure also which brand of filters are fitted in and which logic board is installed.

I'll continue to read very post, they are really interesting, expecially for the reaparing tips.

thanks a lot for all the info, i'll offer the seller 250☐ as i did in the 1st time i contact him.. risk is too high even here in Italy where this unit are expensive to buy ,owner payed 650☐ 1 year ago!

Greetings to all and expecially to Jean-Claude
David

--- In Racal6790GM@yahoogroups.com, <casy_ch@...> wrote:
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> From: dvd
> To: Racal6790GM@yahoogroups.com
> Sent: Tuesday, April 10, 2012 7:56 PM
> Subject: [Racal6790GM] 1792 or 6790GM
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1912. Re: [Racal6790GM] Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-10 23:54:57 UTC
From: Dan Rae
Topic: 1907 Message: 1912

On 4/10/2012 4:25 PM, lc24cxx wrote:
>
> About "O" problem this worry me more than all, i am pretty sure that changing the battery and maybe clean spilled acid probably will resolve everythink, but if is not it will came hard to fix.
It is not acid but alkali that leaks from the battery. Dilute acid like vinegar will help to clean it up. All zeros is the reset state of the microprocessor as has been said many times before and you will probably not get BITE to run if that is the case :^(
> Needs some eprom must re-programmed when the battery is over ?
> or just swap the battery with a new one?
You should be able to get a Varta NiMH equivalent in Eu to directly replace the old battery. The radio will work with no battery at all, just don't turn it off :^)
> i have an universal eeprom programmer and i saw some bin files here maybe they could be useful, but sincerly i hope that repearing will be not so deep.
> Maybe in the future i can try to program some backup eeproms to expand the receiver coverage under 150khz.
> Is the bite selftest running even if the radio shows "0"?
> what makes me feel positive is that the owner sayed that the radio till 1 mounth ago worked perfectly than one day shows only "0"
The eproms are specific for that radio and filter set. Do not try to change them unless you know what you are doing!
losing the memory battery will not kill the eproms.
> Unit has this info written in the back
>
> OPTION GB - S2 - S - D - I - A
> HF RECEIVER
> DRG N. ST80730
> SERIAL N. 991X
If that still reflects the state of the radio it is an early non back lit display version with three eprom A6A2 cpu board, the GB filter set which is the most useful, six filters, can be either Collins mechanical or ITT crystal. You should have the 100 kHz IF convertor board fitted as well as the GPIB interface board and the 9442 OCXO standard. It would have had 10 Hz tuning steps originally but a lot of those were changed to 1 Hz later. Again that is an eprom firmware change...

The chances are that there is a shorted Tantalum capacitor somewhere pulling down one of the supply rails. This should be the first thing to check anyway.

At 300 Euros it is a good buy, even dead!

73 - Dan

ac6ao / g3ncr

1913. Re: [Racal6790GM] Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-11 08:26:23 UTC
From: casy_ch@tbwil.ch
Topic: 1907 Message: 1913

Hello David

Yes, both RA-6790 and RA-6793 have the same circuit. My RA-6793 comes from Gary Wingerd in the USA. It was quite expensive but I like it very much.

One of my RA-1792 + MA-2232 came from Telford Electronics at an interesting price. The second one came from a Hamfest and I sent it to Teleford Electronics for repair. Basically I prefer the UK manufacture but am often listening from the RA-6793. It probably depends upon my mood that day - hi3x.

What Dan, AC6AO has written you is quite correct except for the price for a "dead" - hihihi..... Have a look at Telford Electronics website for pricing:
http://www.telford-electronics.co.uk/stock.php?type=man&man=24
They usually charge me £50.00 for the transport and the packaging is excellent.

For a while I had a RA-1792 without backlighting as well coming from Telford but I changed for a backlighted one as the evening it was painfully readable. I looked to make a backlighting myself, but in the meantime somebody wanted to buy it, so I sold it. Its rear plate showed:
GP/S2/S/D71/A
DRG No ST82129
Serial No 11002

The link you mention shows replacement displays for the RA-1792, but this has nothing to do with the backlighting or not. It is just a replacement of the displays themselves. By the way they are not expensive.

Dan, I did not know that once the CPU is reset, BITE is not running any more. What is the way to correct this state? Hopefully not the trash bin?

Vy 73 de Jean-Claude, HB3YDH

----- Original Message -----
From: lc24cxx
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, April 11, 2012 1:25 AM
Subject: [Racal6790GM] Re: 1792 or 6790GM

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1914. Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-11 08:59:50 UTC
From: lc24cxx
Topic: 1907 Message: 1914

Hello Jean-Claude,

I saw the telford link, but they didn't specify which set of filters the 1792 are fitted, anyway my price for a non working unit seems to expensive for 300□ even with MA-2232,i find a 6790/GM working just with lcd blakneded in a corner,if i can get this for 250/300□ could be a good deal, need to speak with the owner next week.
not backlighted unit don't sounds so interesting to me too, but maybe could be a good way to start with Racal.
I find some EDDYSTONE 1650-6 on ebay are them interesting? on spec seems yes but i don't see any VFO maybe is just remote controlled?
price of Eddystone Unit is about 250□ working.
For Battery if some Alkaly liquid spilled out i will clean with white vinegar, and rinse with distilled water.
Is the tantalium cap shortcut could take cpu in reset mode becouse of the missed voltage?
I continue to read old posts, there have a lot of useful info and the
Basic fault isolation by G. Wingerd is also a good DOC to troubleshooting this beauty.
Davide

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> > With my RA-1792 I have a MA-2232 as well. I think it was not worth for me as the display does not go far in the bandwidth displayed, a few kHz. The LCD display is not very readable if not at eyes height. That was probably thought for tuning in FAX and RTTY stations. For this purpose it is fine for tuning the tones. Racal UK had a nice Panorama display with a large displayed bandwidth called RA-1766A resp. B with an IF input of 1.4MHz and 100KHz. But in fact it has just the front panel of Racal, inside it is the Eddystone 1061A or B. All submodules are actually stamped with the Eddystone parts numbers.
> >
> > By the way has the RA-1792 you can get a backlighted display or not. Without backlighting it is not very readable when not much room light falls onto it. Changing a non backlighted to a backlighted display is fastidious and also difficult to obtain. Not worth it.
> >
> > For the "0" problem of the RA-1792 it could be the backup battery inside which should be changed. Are you ready to pay a repair should it not be the battery. The first thing to do it is to call the "byte" which will analyze the receiver and you could see around which module something is wrong. I sent one of mines to Telford Electronic in the UK for repair. That was not too expensive except the postage! I noticed in the past that in Italy these receivers are sold at a too high price compared to other countries. For the price you mention for both units but in the state the RA-1792 is, I would take the risk but not offer more than EUR 250 + shipping.
> >
> > On the newsgroup read a bit the messages which will show what members had for problems. Luckily enough most of them live in the US. You will see that quite a few had their problems too. If you cannot have it repaired at your place, then it is the postage to the USA ! From Switzerland it is US$200.00.
> >
> > Good luck and let us know how you went along

> >
> > Jean-Claude
> >
> >
> > ----- Original Message -----
> > From: dvd
> > To: Racal6790GM@yahoogroups.com
> > Sent: Tuesday, April 10, 2012 7:56 PM
> > Subject: [Racal6790GM] 1792 or 6790GM
> >
> >
> >
> >
> >
> >
> > I have opportunity to buy one of that radios.
> >
> > 1792 supplied + the dedicated MA2232 panoramic Tuning Aid.
> >
> > Owner sayed that 1792 was working well, but one day suddently lcd displayed only "0" and radio is still out of order.
> >
> > He asks 320â,¬ delivery included for both 1792 + panadapter.
> >
> >
> >
> > other opportunity is the 6790/GM with the frequency display darkened but complety readable, radio turn on, but no other test was made.
> >
> > price still not decide for this unit.
> >
> >
> >
> > What are the most valuable radio between the 2?
> >
> > and which performs better?
> >
> > i am new in racal radio
> >
> > thanks to who wants advise me
> >
> > greetings to everybody
> >
> > David
> >
>

1915. Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-11 10:12:46 UTC
From: lc24cxx
Topic: 1907 Message: 1915

Thank you Dan, now i understand which option fit the Radio,
i hope for collins, but i know that are rare on this radio, ITT are more common.
If i get the 1792 th efirst thing i do is check board and ic conections check battery and than capacitors and voltage.
Davide

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 4/10/2012 4:25 PM, lc24cxx wrote:
> >
> > About "O" problem this worry me more than all, i am pretty sure that changing the battery and maybe clean spilled acid probably will resolve everythink, but if is not it will came hard to fix.
> It is not acid but alkali that leaks from the battery. Dilute acid like
> vinegar will help to clean it up. All zeros is the reset state of the
> microprocessor as has been said many times before and you will probably
> not get BITE to run if that is the case :^(
> > Needs some eprom must re-programmed when the battery is over ?
> > or just swap the battery with a new one?
> You should be able to get a Varta NiMH equivalent in Eu to directly
> replace the old battery. The radio will work with no battery at all,
> just don't turn it off :^)
> > i have an universal eeprom programmer and i saw some bin files here maybe they could be useful, but sincerly i hope that repearing will be not so deep.
> > Maybe in the future i can try to program some backup eeproms to expand the receiver coverage under 150khz.
> > Is the bite selftest running even if the radio shows "0"?
> > what makes me feel positive is that the owner sayed that the radio till 1 mounth ago worked perfectly than one day shows only "0"
> The eproms are specific for that radio and filter set. Do not try to
> change them unless you know what you are doing!
> losing the memory battery will not kill the eproms.
> > Unit has this info written in the back
> >
> > OPTION GB - S2 - S - D - I - A
> > HF RECEIVER
> > DRG N. ST80730
> > SERIAL N. 991X
> If that still reflects the state of the radio it is an early non back
> lit display version with three eprom A6A2 cpu board, the GB filter set
> which is the most useful, six filters, can be either Collins mechanical
> or ITT crystal. You should have the 100 kHz IF convertor board fitted as
> well as the GPIB interface board and the 9442 OCXO standard. It would
> have had 10 Hz tuning steps originally but a lot of those were changed
> to 1 Hz later. Again that is an eprom firmware change...

>
> The chances are that there is a shorted Tantalum capacitor somewhere
> pulling down one of the supply rails. This should be the first thing to
> check anyway.
>
> At 300 Euros it is a good buy, even dead!
>
> 73 - Dan
>
> ac6ao / g3ncr
>

1916. Re: [Racal6790GM] Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-11 12:26:33 UTC
From: Davide
Topic: 1907 Message: 1916

Here sone photos of the unit, i think is fitted with collins

http://www.imagebam.com/image/b0334d184387205

http://www.imagebam.com/image/7c6d3e184387336

http://www.imagebam.com/image/b56b5e184387504

http://www.imagebam.com/image/ea3a3e184387617

http://www.imagebam.com/image/45bdf6184387688

http://www.imagebam.com/image/708ce7184387789

http://www.imagebam.com/image/5ba93e184387898

http://www.imagebam.com/image/8c8d0d184388016

Inviato da iPhone

Il giorno 11/apr/2012, alle ore 12:12, "lc24cxx" <dvd@fastwebnet.it> ha scritto:

>
> Thank you Dan, now i understand which option fit the Radio,
> i hope for collins, but i know that are rare on this radio, ITT are more common.
> If i get the 1792 th efirst thing i do is check board and ic conections check battery and than capacitors and voltage.
> Davide
>
>
> --- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>>
>> On 4/10/2012 4:25 PM, lc24cxx wrote:
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>>> About "0" problem this worry me more than all, i am pretty sure that changing the battery and maybe clean spilled acid probably will resolve everythink, but if is not it will came hard to fix.
>> It is not acid but alkali that leaks from the battery. Dilute acid like
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>> microprocessor as has been said many times before and you will probably
>> not get BITE to run if that is the case :^(
>>> Needs some eprom must re-programmed when the battery is over ?
>>> or just swap the battery with a new one?
>> You should be able to get a Varta NiMH equivalent in Eu to directly
>> replace the old battery. The radio will work with no battery at all,
>> just don't turn it off :^)
>>> i have an universal eeprom programmer and i saw some bin files here maybe they could be useful, but sincerly i hope that repearing will be not so deep.

>>> Maybe in the future i can try to program some backup eeproms to expand the receiver coverage under 150khz.
>>> Is the bite selftest running even if the radio shows "0"?
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>> to 1 Hz later. Again that is an eprom firmware change...
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>> The chances are that there is a shorted Tantalum capacitor somewhere
>> pulling down one of the supply rails. This should be the first thing to
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>> At 300 Euros it is a good buy, even dead!
>>
>> 73 - Dan
>>
>> ac6ao / g3ncr
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1917. Re: [Racal6790GM] Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-11 13:18:02 UTC
From: BW PITMAN
Topic: 1907 Message: 1917

The 1792 is fairly easy to find in the UK but the 6790 is not and looking at their respective circuit diagrams they appear to be almost identical circuit wise.
Before buying my 1792 I researched the web, the www.eham.net site being particularly good.
I was left with the impression is that people either love or hate the the 1792.
I took the plunge and bought a 1792 but only after I was confident that my 1960,s, 1970,s electronic knowledge could just about fix faults by changing components that were still available. Replacement micros and LCD are still being sold
There were many scare stories about the unreliability of the 1792 and the poor performance, fingers crossed, I have yet to encounter them.
I understand the 1792 and 6790 was a combined UK US creation and hence I suspect the traditional " not invented here effect" is sometimes evident in the reviews.

Regards

From: lc24cxx <dvd@...>
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, 11 April 2012, 11:12
Subject: [Racal6790GM] Re: 1792 or 6790GM

Thank you Dan, now i understand which option fit the Radio,
i hope for collins, but i know that are rare on this radio, ITT are more common.
If i get the 1792 th efirst thing i do is check board and ic conections check battery and than capacitors and voltage.
Davide

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
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> just don't turn it off :^)
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> pulling down one of the supply rails. This should be the first thing to
> check anyway.
>
> At 300 Euros it is a good buy, even dead!
>
> 73 - Dan
>
> ac6ao / g3ncr
>

1918. Re: [Racal6790GM] Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-11 13:35:37 UTC
From: casy_ch@tbwil.ch
Topic: 1907 Message: 1918

Hello Davide

You seem to jump from one brand to the other. As here they are no dealers for older stuff, I "unfortunately" did the same, bought quite a number of receivers and kept only those which I preferred.

I have no clue what a Collins 651S1 and a 851S1 are worth what the reception is concerned. The brand is overpriced as quite a number of US receivers. It is just a question of market chauvinism of US citizens for their brands. They would i.e. not hesitate to buy a Ra-6790, but they would for a RA-1792!

Also I never had a Racal RA-1772 nor an Eddystone 1650. If I remember it is also a receiver with plasticsheet keys. I have an Eddystone 6200 which is only 2 Rack units high, has got plastic sheet keys, but the reception is absolutely excellent. I do not use it a lot because the change of VFO tuning units is not convivial. To change it, one has to enter a key, then turn the main knob to choose the increment and push the key again. Fastidious when doing general listening.

Another receiver which is unique is the Standard & Telefon Sweden called SRT CR91. That one has been developped around 1984 by SRT together with hams and is really fun to use. One feels that hams have been involved as well. Its disadvantage are the small LEDs of 5mm height, but funny enough that is the only receiver I have on which I can see and read the display from quite an angle on the contrary of LCDs.

One is for sure. Such professional rigs have been developped for surveillance and/or point-to-point reception and lack quite a number of features which would be of great help for general listening. The recent amateur receivers/transceivers are in my opinion well conceived and their reception can easily compare with Racal, ITT, Eddystone, etc. I have a Yaesu FT-990 and its receiving part easily compete with the other receivers I have, but having passband tuning, notch, NB, etc.

Here I have two wide band preamplifiers which give each the same signal from one antenna to 10 receivers. So it is very easy to compare the reception of a signal between the rigs. To me sensitivity is good on prospectus and their datas, but at the end it is the subjective feeling of the listener which counts.

Vy 73 de Jean-Claude, HB3YDH

----- Original Message -----
From: lc24cxx
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, April 11, 2012 12:12 PM
Subject: [Racal6790GM] Re: 1792 or 6790GM

Thank you Dan, now i understand which option fit the Radio,
i hope for collins, but i know that are rare on this radio, ITT are more common.
If i get the 1792 th efirst thing i do is check board and ic conections check battery and

than capacitors and voltage.
Davide

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
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> > Maybe in the future i can try to program some backup eeproms to expand the receiver coverage under 150khz.
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>
> The chances are that there is a shorted Tantalum capacitor somewhere
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> check anyway.
>
> At 300 Euros it is a good buy, even dead!
>
> 73 - Dan
>

> ac6ao / g3ncr
>

1919. Re: [Racal6790GM] Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-11 13:38:28 UTC
From: Dan Rae
Topic: 1907 Message: 1919

On 4/11/2012 1:26 AM, casy_ch@... wrote:
>
>
> Dan, I did not know that once the CPU is reset, BITE is not running
> any more. What is the way to correct this state? Hopefully not the
> trash bin?
>
Jean-Claude, what I meant was that if the CPU is not working, if it is in the reset state as shown by the display with all zeros, nothing will work, certainly not BITE, obviously.

Whatever is causing this, and it can be a number of things but most likely a tantalum, you would have to fix it before BITE will run.

As to the price, this is an opinion, not a fact, and I still think that 300 Euros for that 1792 with a set of Collins filters and with the tuning aid is a fair one.

In any case the original question was to compare the two: 1792 versus 6790/GM, and personally I would prefer the 1792 with it's memories and other features over the GM, especially if I was in EU where parts for the GM will be hard to find and expensive if they have to come from the US. If you need new LCDs for the GM for example, that will cost what to get to Italy? 200 Euros maybe? The 1792 is much more like the 6793 than the GM.

73 - Dan

1920. R: [Racal6790GM] Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-11 14:19:07 UTC
From: dvd
Topic: 1907 Message: 1920

Sure no cpu, no bite test or whatever..

About the original question seems real more confortable to use the 1792 with normal keyboard and for spare parts (UE).

From the photos i receive of the unit seems had 100khz out option, board is fitted with 1987 eproms, battery seems ok and boards seems clean, maybe owner already attempt a repair.

with delivery he asks 320€ is at the price limit..

'73

David

Da: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] Per conto di casy_ch@...
Inviato: mercoledì 11 aprile 2012 15:36
A: Racal6790GM@yahoogroups.com
Oggetto: Re: [Racal6790GM] Re: 1792 or 6790GM

Hello Davide

You seem to jump from one brand to the other. As here they are no dealers for older stuff, I "unfortunately" did the same, bought quite a number of receivers and kept only those which I preferred.

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Vy 73 de Jean-Claude, HB3YDH

----- Original Message -----

From: lc24cxx <mailto:dvd@...>

To: Racal6790GM@yahoogroups.com

Sent: Wednesday, April 11, 2012 12:12 PM

Subject: [Racal6790GM] Re: 1792 or 6790GM

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> ac6ao / g3ncr
>

1921. Re: [Racal6790GM] Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-11 14:34:20 UTC
From: casy_ch@tbwil.ch
Topic: 1907 Message: 1921

The MA-2232 was supplied with 3 different IF inputs: 100KHz, 455KHz or 1.4MHz which had to be decided when ordering at the factory

If the RA-1792 you are talking about was used with the MA-2232 coming with it, it must have one of those IF outputs. My MA-2232 works with a 100kHz IF input.

Vy 73 de Jean-Claude, HB3YDH

----- Original Message -----
From: dvd
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, April 11, 2012 4:19 PM
Subject: R: [Racal6790GM] Re: 1792 or 6790GM

Sure no cpu, no bite test or whatever..

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From the photos i receive of the unit seems had 100khz out option, board is fitted with 1987 eproms, battery seems ok and boards seems clean, maybe owner already attempt a repair.

with delivery he asks 320€ is at the price limit..

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A: Racal6790GM@yahoogroups.com
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Also I never had a Racal RA-1772 nor an Eddystone 1650. If I remember it is also a receiver with plasticsheet keys. I have an Eddystone 6200 which is only 2 Rack units high, has got plastic sheet keys, but the reception is absolutely excellent. I do not use it a lot

because the change of VFO tuning units is not convivial. To change it, one has to enter a key, then turn the main knob to choose the increment and push the key again. Fastidious when doing general listening.

Another receiver which is unique is the Standard & Telefon Sweden called SRT CR91. That one has been developped around 1984 by SRT together with hams and is really fun to use. One feels that hams have been involved as well. Its disadvantage are the small LEDs of 5mm height, but funny enough that is the only receiver I have on which I can see and read the display from quite an angle on the contrary of LCDs.

One is for sure. Such professional rigs have been developped for surveillance and/or point-to-point reception and lack quite a number of features which would be of great help for general listening. The recent amateur receivers/transceivers are in my opinion well conceived and their reception can easily compare with Racal, ITT, Eddystone, etc. I have a Yaesu FT-990 and its receiving part easily compete with the other receivers I have, but having passband tuning, notch, NB, etc.

Here I have two wide band preamplifiers which give each the same signal from one antenna to 10 receivers. So it is very easy to compare the reception of a signal between the rigs. To me sensitivity is good on prospectus and their datas, but at the end it is the subjective feeling of the listener which counts.

Vy 73 de Jean-Claude, HB3YDH

----- Original Message -----

From: lc24cxx

To: Racal6790GM@yahoogroups.com

Sent: Wednesday, April 11, 2012 12:12 PM

Subject: [Racal6790GM] Re: 1792 or 6790GM

Thank you Dan, now i understand which option fit the Radio,
i hope for collins, but i know that are rare on this radio, ITT are more common.
If i get the 1792 th efirst thing i do is check board and ic conections check battery and than capacitors and voltage.
Davide

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 4/10/2012 4:25 PM, lc24cxx wrote:
> >
> > About "O" problem this worry me more than all, i am pretty sure that changing the battery and maybe clean spilled acid probably will resolve everythink, but if is not it will came hard to fix.
> It is not acid but alkali that leaks from the battery. Dilute acid like
> vinegar will help to clean it up. All zeros is the reset state of the
> microprocessor as has been said many times before and you will probably
> not get BITE to run if that is the case :^(
> > Needs some eprom must re-programmed when the battery is over ?
> > or just swap the battery with a new one?
> You should be able to get a Varta NiMH equivalent in Eu to directly

> replace the old battery. The radio will work with no battery at all,
> just don't turn it off :^)
> > i have an universal eeprom programmer and i saw some bin files here maybe they could be useful, but sincerly i hope that repearing will be not so deep.
> > Maybe in the future i can try to program some backup eeproms to expand the receiver coverage under 150khz.
> > Is the bite selftest running even if the radio shows "0"?
> > what makes me feel positive is that the owner sayed that the radio till 1 mounth ago worked perfectly than one day shows only "0"
> The eproms are specific for that radio and filter set. Do not try to
> change them unless you know what you are doing!
> losing the memory battery will not kill the eproms.
> > Unit has this info written in the back
> >
> > OPTION GB - S2 - S - D - I - A
> > HF RECEIVER
> > DRG N. ST80730
> > SERIAL N. 991X
> If that still reflects the state of the radio it is an early non back
> lit display version with three eprom A6A2 cpu board, the GB filter set
> which is the most useful, six filters, can be either Collins mechanical
> or ITT crystal. You should have the 100 kHz IF convertor board fitted as
> well as the GPIB interface board and the 9442 OCXO standard. It would
> have had 10 Hz tuning steps originally but a lot of those were changed
> to 1 Hz later. Again that is an eprom firmware change...
>
> The chances are that there is a shorted Tantalum capacitor somewhere
> pulling down one of the supply rails. This should be the first thing to
> check anyway.
>
> At 300 Euros it is a good buy, even dead!
>
> 73 - Dan
>
> ac6ao / g3ncr
>

1922. Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-11 13:49:18 UTC
From: graham787
Topic: 1907 Message: 1922

I understand the 1792 and 6790 was a combined UK US creation

No from my memory, the ra1792 was under development in the annex from western road, where the 1771/1772 where just in production , that was 1974/1975,

It was the first microprocessor based radio, intended to reduce the production costs associated with the ra1771/2 and simplify the remote operations , which where selling £4500 to £5500 depending on the number of extra boards etc..and at that time it was not a military project, private venture, as all the components where commercial quality.

Cost comparison, A mini car (the real one) was about £650 then and £15,000 now, the sets sold like hot cakes (gold flashed ones) .no idea what the 1792 sold as, probably the same.

The big sales swing came on the back of the wireless world , article where Marconi stated , it was not possible to reach the levels published by racal, the head receiver group was a good friend of the Marconi engine who wrote the article

The UK Gov , used to give them away as gifts to foreign embassy's, fitted in rose wood boxes with a brass plate on the front ....the local coffin maker in Bracknell used to make the boxes and have the plates engraved, that bit was not too widely publicised , when you think of the mostly African destination..closely followed, by the guns in packing cases at tillbery dock's , when the obligatory case fell off the crane sling , what fell out, was not what was stencilled on the side ..matrix-Churchill was 30 years later ...

G..

I think the usa link up's came later

G..

--- In Racal6790GM@yahoogroups.com, BW PITMAN <shipwrights.cottered@...> wrote:
>
> The 1792 is fairly easy to find in the UK but the 6790 is not andÂ looking at their respective circuit diagrams they appear to be almost identical circuit wise.
> Before buying my 1792 I researched the web, the www.eham.netÂ site being particularly good. I was left with the impression is that people eitherÂ love or hate the the 1792.
> I took the plunge and bought a 1792 but only after I was confident that my 1960,s, 1970,s electronic knowledge could just about fix faults by changing components that were still available.Â Replacement micros and LCD areÂ still being sold
> ThereÂ were many scare stories about the unreliability of the 1792 and the poor performance, fingers crossed, I have yet to encounter them.Â
> I understand the 1792 and 6790 was a combined UK US creation and hence I suspect the traditional " not invented here effect" is sometimes evident in the reviews.
>
> RegardsÂ
>
> _____

> From: lc24cxx <dvd@...>
> To: Racal6790GM@yahoogroups.com
> Sent: Wednesday, 11 April 2012, 11:12
> Subject: [Racal6790GM] Re: 1792 or 6790GM
>
>
> Â
>
>
> Thank you Dan, now i understand which option fit the Radio,
> i hope for collins, but i know that are rare on this radio, ITT are more common.
> If i get the 1792 th efirst thing i do is check board and ic conections check battery and than capacitors and voltage.
> Davide
>
> --- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@> wrote:
> >
> > On 4/10/2012 4:25 PM, lc24cxx wrote:
> > >
> > > About "O" problem this worry me more than all, i am pretty sure that changing the battery and maybe clean spilled acid probably will resolve everythink, but if is not it will came hard to fix.
> > It is not acid but alkali that leaks from the battery. Dilute acid like
> > vinegar will help to clean it up. All zeros is the reset state of the
> > microprocessor as has been said many times before and you will probably
> > not get BITE to run if that is the case :^(
> > > Needs some eprom must re-programmed when the battery is over ?
> > > or just swap the battery with a new one?
> > You should be able to get a Varta NiMH equivalent in Eu to directly
> > replace the old battery. The radio will work with no battery at all,
> > just don't turn it off :^)
> > > i have an universal eeprom programmer and i saw some bin files here maybe they could be useful, but sincerly i hope that repearing will be not so deep.
> > > Maybe in the future i can try to program some backup eeproms to expand the receiver coverage under 150khz.
> > > Is the bite selftest running even if the radio shows "0"?
> > > what makes me feel positive is that the owner sayed that the radio till 1 mounth ago worked perfectly than one day shows only "0"
> > The eproms are specific for that radio and filter set. Do not try to
> > change them unless you know what you are doing!
> > losing the memory battery will not kill the eproms.
> > > Unit has this info written in the back
> > >
> > > OPTION GB - S2 - S - D - I - A
> > > HF RECEIVER
> > > DRG N. ST80730
> > > SERIAL N. 991X
> > If that still reflects the state of the radio it is an early non back
> > lit display version with three eprom A6A2 cpu board, the GB filter set
> > which is the most useful, six filters, can be either Collins mechanical

> > or ITT crystal. You should have the 100 kHz IF convertor board fitted as
> > well as the GPIB interface board and the 9442 OCXO standard. It would
> > have had 10 Hz tuning steps originally but a lot of those were changed
> > to 1 Hz later. Again that is an eprom firmware change...
> >
> > The chances are that there is a shorted Tantalum capacitor somewhere
> > pulling down one of the supply rails. This should be the first thing to
> > check anyway.
> >
> > At 300 Euros it is a good buy, even dead!
> >
> > 73 - Dan
> >
> > ac6ao / g3ncr
> >
>

1923. Re: [Racal6790GM] Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-11 23:11:30 UTC
From: Dan Rae
Topic: 1907 Message: 1923

On 4/11/2012 6:49 AM, graham787 wrote:
> I understand the 1792 and 6790 was a combined UK US creation
Indeed but the GM was kind of crippled by the US Govt requirements to have those odd fixed tuning rates and to lose the memories, and omit the RF amp and the front end protection that it gave, but a lot of the circuitry is indeed common to both. But I guess the plug in filters had some advantages.
>
> No from my memory, the ra1792 was under development in the annex from western road, where the 1771/1772 were just in production , that was 1974/1975,
And Graham, you were a lot nearer to that than me :^)
>
> It was the first microprocessor based radio,
I hate to contradict you seeing as you were there, but I think that honour maybe goes to the US made RA6778A and B at least as far as Racal was concerned. I have one here and it's quite interesting. They took the RF stuff from the 1772 and married it to a very early version of the F8 microprocessor control circuitry where each part of what became the single board in the 1792 and the GM was on a separate plug in board. The CPU itself on one board, RAM on another, eproms (8 kB 2708s), battery back up and so on all on separate boards. Even that had 16 memories available. All the wire wrap connections underneath are a wonder to behold. The later version 6778C had all the control stuff on the one board, like the 1792 and GM.

As you say it was a joint project without a doubt, and I'm sure there was a lot of common work going on. The F8 series was the first microprocessor available as far as I know, so a logical first choice, but I am surprised that they stuck with it for so long in the UK; later versions of the GM here had Z80 processor boards, even though they were made to appear exactly like the older boards to the user...

The original RA6790, without the GM suffix, would have appeared at about the same time as the Mark I 1792s with the square flat push buttons I guess. There are not a lot of either around now. I have a version of what seems to be a somewhat inaccurate (draft?) RA1792 manual published from Racal Maryland, so maybe they did try to sell some of the 1792s here early on.

73

Dan

1924. R: [Racal6790GM] Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-17 18:27:27 UTC
From: dvd@fastwebnet.it
Topic: 1907 Message: 1924

In the final I Decide for RA-1792 with collins filters set + monitor, not workin
g unit.
In a couple of days i'll start to manage to fix it.
thanks to all who supported/inform till now,and carefully encourage me.

greetings
Davide

>----Messaggio originale----
>Da: dvd@...
>Data: 11/04/2012 1.25
>A: <Racal6790GM@yahoogroups.com>
>Ogg: [Racal6790GM] Re: 1792 or 6790GM
>
>Can't wish for a better answer,
>
>As i read both receivers seems are eletronically similar,and i guess they share
the same receiver circuit.
>But i think that a keypad is important for a non governament usage, so
>i think i go for RA-1792, RA-6793 is too difficult to find.
>MA-2232 is not so useful except for digital modes , is just something that give
s more value for the deal, and if one day i am going to sell..
>About backlight display i think that the unit doesn't has (need ask), but i saw
from photos that lcd are good,anyway this site is selling cheap pin to pin comp
atible lcd http://www.1792lcd.com
>
>About "O" problem this worry me more than all, i am pretty sure that changing t
he battery and maybe clean spilled acid probably will resolve everythink, but if
is not it will came hard to fix.
>Needs some eprom must re-programmed when the battery is over ?
>or just swap the battery with a new one?
>i have an universal eeprom programmer and i saw some bin files here maybe they
could be useful, but sincerly i hope that repearing will be not so deep.
>Maybe in the future i can try to program some backup eeproms to expand the rece
iver coverage under 150khz.
>Is the bite selftest running even if the radio shows "0"?
>what makes me feel positive is that the owner sayed that the radio till 1 mount
h ago worked perfectly than one day shows only "0"
>
>this is a google cache link with actually photos of the radio :
>
>
>http://webcache.googleusercontent.com/search?q=cache:6sSdw82kll4J:annunci.ebay.
it/annunci/audio-tv-e-video/terni-annunci-terni/ricevitore-hf-racal/26992273+eba
y+annunci+ricevitore+hf+racal&cd=1&hl=it&ct=clnk&gl=it

>
>Unit has this info written in the back
>
>OPTION GB - S2 - S - D - I - A
>HF RECEIVER
>DRG N. ST80730
>SERIAL N. 991X
>
>seems is not an old version, serial is close to 10000 i can't understand which
options are installed, and for sure also which brand of filters are fitted in an
d which logic board is installed.
>
>I'll continue to read very post, they are really interesting, expecially for th
e reaparing tips.
>
>thanks a lot for all the info, i'll offer the seller 250☐ as i did in the 1st t
ime i contact him.. risk is too high even here in Italy where this unit are expe
nsive to buy ,owner payed 650☐ 1 year ago!
>
>Greetings to all and expecially to Jean-Claude
>David
>
>
>
>
>
>
>
>--- In Racal6790GM@yahoogroups.com, <casy_ch@...> wrote:
>>
>> Hi David
>>
>> It is difficult to say which one ist the best. The RA-1792 is UK made and the
RA-6790 is US made. Personally I do not like the RA-6790 with its non tactile k
eypads (plastics pads) and prefer the nice keys of the RA-1792. With the time I
changed my RA-6790 for a RA-6793 which has got "normal" keys as well but cost mo
re than the RA-6790. Other than the keys they are the same receivers.
>>
>> With my RA-1792 I have a MA-2232 as well. I think it was not worth for me as
the display does not go far in the bandwidth displayed, a few kHz. The LCD displ
ay is not very readable if not at eyes height. That was probably thought for tun
ing in FAX and RTTY stations. For this purpose it is fine for tuning the tones.
Racal UK had a nice Panorama display with a large displayed bandwidth called RA-
1766A resp. B with an IF input of 1.4MHz and 100KHz. But in fact it has just the
front panel of Racal, inside it is the Eddystone 1061A or B. All submodules are
actually stamped with the Eddystone parts numbers.
>>
>> By the way has the RA-1792 you can get a backlighted display or not. Without
backlighting it is not very readable when not much room light falls onto it. Cha

nging a non backlighted to a backlighted display is fastidious and also difficul
t to obtain. Not worth it.
>>
>> For the "0" problem of the RA-1792 it could be the backup battery inside whic
h should be changed. Are you ready to pay a repair should it not be the battery.
The first thing to do it is to call the "byte" which will analyze the receiver
and you could see around which module something is wrong. I sent one of mines to
Telford Electronic in the UK for repair. That was not too expensive except the
postage! I noticed in the past that in Italy these receivers are sold at a too h
igh price compared to other countries. For the price you mention for both units
but in the state the RA-1792 is, I would take the risk but not offer more than E
UR 250 + shipping.
>>
>> On the newsgroup read a bit the messages which will show what members had for
problems. Luckily enough most of them live in the US. You will see that quite a
few had their problems too. If you cannot have it repaired at your place, then
it is the postage to the USA ! From Switzerland it is US$200.00.
>>
>> Good luck and let us know how you went along
>>
>> Jean-Claude
>>
>>
>> ----- Original Message -----
>> From: dvd
>> To: Racal6790GM@yahoogroups.com
>> Sent: Tuesday, April 10, 2012 7:56 PM
>> Subject: [Racal6790GM] 1792 or 6790GM
>>
>>
>>
>>
>>
>>
>> I have opportunity to buy one of that radios.
>>
>> 1792 supplied + the dedicated MA2232 panoramic Tuning Aid.
>>
>> Owner sayed that 1792 was working well, but one day suddently lcd displayed
only "0" and radio is still out of order.
>>
>> He asks 320â□¬ delivery included for both 1792 + panadapter.
>>
>>
>>
>> other opportunity is the 6790/GM with the frequency display darkened but co
mplety readable, radio turn on, but no other test was made.
>>
>> price still not decide for this unit.

>>
>>
>>
>> What are the most valuable radio between the 2?
>>
>> and which performs better?
>>
>> i am new in racal radio
>>
>> thanks to who wants advise me
>>
>> greetings to everybody
>>
>> David
>>
>
>
>
>----------
>
>Yahoo! Groups Links
>
>
>
>

1925. Re: R: [Racal6790GM] Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-17 20:00:59 UTC
From: Marco IK1ODO
Topic: 1907 Message: 1925

At 20:27 17/04/2012, you wrote:
>
>
>In the final I Decide for RA-1792 with collins filters set +
>monitor, not workin
>g unit.
>In a couple of days i'll start to manage to fix it.
>thanks to all who supported/inform till now,and carefully encourage me.
>
>greetings
>Davide

Davide,

in case you need spares for the 1792 I still have plenty :-) - please ask.

73 - Marco IK1ODO

1926. Re: R: [Racal6790GM] Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-18 17:44:01 UTC
From: Davide
Topic: 1907 Message: 1926

Thank you mate!

Inviato da iPhone

Il giorno 17/apr/2012, alle ore 22:00, Marco IK1ODO <ik1odo@...> ha scritto:

> At 20:27 17/04/2012, you wrote:
>>
>>
>> In the final I Decide for RA-1792 with collins filters set +
>> monitor, not workin
>> g unit.
>> In a couple of days i'll start to manage to fix it.
>> thanks to all who supported/inform till now,and carefully encourage me.
>>
>> greetings
>> Davide
>
> Davide,
>
> in case you need spares for the 1792 I still have plenty :-) - please ask.
>
> 73 - Marco IK1ODO
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1927. Fault

Yahoo group: Racal6790GM
Date: 2012-04-29 15:54:19 UTC
From: hns_r
Topic: 1927 Message: 1927

Hello everybody,
Today i get in trouble with my racal 6790 gm.
After several minuten playing very well most of de
display showed only zero all the frequency display is zero
the left display showed only two zero's where normally the filter displayed is.
I can't do the bite test, so nothing i can do to get him back in business.
Is there somebody with an idea?
Thanks Hans

1928. Re: [Racal6790GM] Fault

Yahoo group: Racal6790GM
Date: 2012-04-29 20:42:16 UTC
From: gewingerd@netzero.com
Topic: 1927 Message: 1928
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1929. Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-04-12 00:17:09 UTC
From: graham787
Topic: 1907 Message: 1929

> It was the first microprocessor based radio,
I hate to contradict you seeing as you were there, but I think that
honour maybe goes to the US made RA6778A and B

Interesting , Dan

I suppose it's down to the time line and links Racal had with the usa in 1974.

Definitely the RF (IF) path of the 1792 was under development, as the lab was next to the 1771/2 production test area and the dev- engineers spent a lot of time troubleshooting faults on the 1771/2 , mostly logic miss triggers as the chips where running at max for the day .. or the chips that where installed where.. so there was a lot of cross chatter.

The 1792 had problems driving the pin diode agc, that took some time to sort .. and the digital(?)chief design engineer had been taken ill with a breakdown previously, don't think it was (Whyn or win?) that had stalled things, things like timed frequency changes and a linear S meter where the talk of the day .. first to have LCD display as well..?

Do you have a time line for the 1771/2 hybrid ?

G.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 4/11/2012 6:49 AM, graham787 wrote:
> > I understand the 1792 and 6790 was a combined UK US creation
> Indeed but the GM was kind of crippled by the US Govt requirements to
> have those odd fixed tuning rates and to lose the memories, and omit the
> RF amp and the front end protection that it gave, but a lot of the
> circuitry is indeed common to both. But I guess the plug in filters
> had some advantages.
> >
> > No from my memory, the ra1792 was under development in the annex from western road,
where the 1771/1772 were just in production , that was 1974/1975,
> And Graham, you were a lot nearer to that than me :^)
> >
> > It was the first microprocessor based radio,
> I hate to contradict you seeing as you were there, but I think that
> honour maybe goes to the US made RA6778A and B at least as far as Racal
> was concerned. I have one here and it's quite interesting. They took
> the RF stuff from the 1772 and married it to a very early version of the
> F8 microprocessor control circuitry where each part of what became the
> single board in the 1792 and the GM was on a separate plug in board.
> The CPU itself on one board, RAM on another, eproms (8 kB 2708s),
> battery back up and so on all on separate boards. Even that had 16
> memories available. All the wire wrap connections underneath are a
> wonder to behold. The later version 6778C had all the control stuff on

> the one board, like the 1792 and GM.
>
> As you say it was a joint project without a doubt, and I'm sure there
> was a lot of common work going on. The F8 series was the first
> microprocessor available as far as I know, so a logical first choice,
> but I am surprised that they stuck with it for so long in the UK; later
> versions of the GM here had Z80 processor boards, even though they were
> made to appear exactly like the older boards to the user...
>
> The original RA6790, without the GM suffix, would have appeared at about
> the same time as the Mark I 1792s with the square flat push buttons I
> guess. There are not a lot of either around now. I have a version of
> what seems to be a somewhat inaccurate (draft?) RA1792 manual published
> from Racal Maryland, so maybe they did try to sell some of the 1792s
> here early on.
>
> 73
>
> Dan
>

1930. Re: [Racal6790GM] Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-05-05 22:19:57 UTC
From: Dan Rae
Topic: 1907 Message: 1930

On 4/11/2012 5:17 PM, graham787 wrote:
>> It was the first microprocessor based radio,
> I hate to contradict you seeing as you were there, but I think that
> honour maybe goes to the US made RA6778A and B
>
> Interesting , Dan
>
> I suppose it's down to the time line and links Racal had with the usa in 1974.
>
> Definitely the RF (IF) path of the 1792 was under development, as the lab was next to the 1771/2 production test area and the dev- engineers spent a lot of time troubleshooting faults on the 1771/2 , mostly logic miss triggers as the chips where running at max for the day .. or the chips that where installed where.. so there was a lot of cross chatter.
>
> The 1792 had problems driving the pin diode agc, that took some time to sort .. and the digital(?)chief design engineer had been taken ill with a breakdown previously, don't think it was (Whyn or win?) that had stalled things, things like timed frequency changes and a linear S meter where the talk of the day .. first to have LCD display as well..?
>
> Do you have a time line for the 1771/2 hybrid ?
Odd, that message was dated the 4th April and has only just appeared
with me. Yahoo is up to it's tricks again.

Graham, sorry, I don't have as much info as you on the UK stuff, after all you were a lot nearer than I was at the time. The Wireless World article by Winn which I have a now very yellow copy of was in the October 1974 issue so it must have been on the market by then. My 6778A manual is dated 1978, so it's not that much later. As I said, the computer stuff in that is all connected underneath with wire wrap, while the boards themselves are normal looking plug in boards. All the RF / IF boards are standard 1772 / 6772 stuff, except for the tempest qualified screened packaging. I'm not going to take it out of the rack to check date codes on components, but it is from around that date, I'm sure. The actual cpu and supporting circuitry is very similar to that in the GM and early 1792, but the eproms are 2708s, probably the largest that were available at the time it was built. It's a nice radio, one of the first of the herd that I turn on :^)

I wonder why the UK 1778 didn't go that way as well, it must have been more or less contemporary with the 6778A, but they opted for pure logic with no microprocessor in that one and what's worse, kept that awful free running BFO that had already been synthesized in the later versions of the US 6772.

73, Dan

1931. Re: 1792 or 6790GM

Yahoo group: Racal6790GM
Date: 2012-05-06 14:59:50 UTC
From: graham787
Topic: 1907 Message: 1931

UK 1778 didn't go that way as well

May of been down to cost's and possibly user ''requirement's'' I remember they where using components that the UK Radio/Tv industry had rejected on reliability grounds, I have the feeling it was private venture at the start, that was one of the reasons I went for the 6790gm . made in the usa, but in saying that to achieve nato acceptance, the 1792 build would need be 'reasonable'

I don't think the solid state radios before the 1771/2 had a very good press, on the usa link, some of the guys a worked with went out to the us 1975 onwards , so may be it was just starting 1973/4 ? long time ago now

73 -G..

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 4/11/2012 5:17 PM, graham787 wrote:
> >> It was the first microprocessor based radio,
> > I hate to contradict you seeing as you were there, but I think that
> > honour maybe goes to the US made RA6778A and B
> >
> > Interesting , Dan
> >
> > I suppose it's down to the time line and links Racal had with the usa in 1974.
> >
> > Definitely the RF (IF) path of the 1792 was under development, as the lab was next to the 1771/2 production test area and the dev- engineers spent a lot of time troubleshooting faults on the 1771/2 , mostly logic miss triggers as the chips where running at max for the day .. or the chips that where installed where.. so there was a lot of cross chatter.
> >
> > The 1792 had problems driving the pin diode agc, that took some time to sort .. and the digital(?)chief design engineer had been taken ill with a breakdown previously, don't think it was (Whyn or win?) that had stalled things, things like timed frequency changes and a linear S meter where the talk of the day .. first to have LCD display as well..?
> >
> > Do you have a time line for the 1771/2 hybrid ?
> Odd, that message was dated the 4th April and has only just appeared
> with me. Yahoo is up to it's tricks again.
>
> Graham, sorry, I don't have as much info as you on the UK stuff, after
> all you were a lot nearer than I was at the time. The Wireless World
> article by Winn which I have a now very yellow copy of was in the
> October 1974 issue so it must have been on the market by then. My 6778A
> manual is dated 1978, so it's not that much later. As I said, the
> computer stuff in that is all connected underneath with wire wrap, while
> the boards themselves are normal looking plug in boards. All the RF /

> IF boards are standard 1772 / 6772 stuff, except for the tempest
> qualified screened packaging. I'm not going to take it out of the rack
> to check date codes on components, but it is from around that date, I'm
> sure. The actual cpu and supporting circuitry is very similar to that
> in the GM and early 1792, but the eproms are 2708s, probably the largest
> that were available at the time it was built. It's a nice radio, one
> of the first of the herd that I turn on :^)
>
> I wonder why the UK 1778 didn't go that way as well, it must have been
> more or less contemporary with the 6778A, but they opted for pure logic
> with no microprocessor in that one and what's worse, kept that awful
> free running BFO that had already been synthesized in the later versions
> of the US 6772.
>
> 73, Dan
>

1932. For sale, a Racal RA-1792 receiver / So Cal Area.

Yahoo group: Racal6790GM
Date: 2012-05-06 23:30:06 UTC
From: Darrell
Topic: 1932 Message: 1932

I have for sale a Racal RA-1792 receiver. I have had it a few years now and it has always worked perfect. It is in immaculate condition, both inside and out. I am assuming it came from Telford Electronics as it has a few of their stickers on it. It is loaded with filters and the rs232 board. The displays are perfect and the backup battery looks to have been recently replaced. Anyone interested can call me at 805-827-2927 or email me at dh1338@hotmail.com I am in the Ventura County area / Southern California.

Thanks.

1933. Re: 1792 or 6790GM or 6778C - new micro boards

Yahoo group: Racal6790GM
Date: 2012-05-07 12:23:19 UTC
From: jst5000can
Topic: 1907 Message: 1933

Certainly some challenges in maintaining the computer boards for these radios using the obsolete F8 microprocessor.
I am working to have a modern replacement for the 6778C that will also add a more standard software interface to a PC.
Plan to follow with a similar board for the 6790GM.

Neither will use EPROMs for program storage or require a battery for memory retention.

I'm open to any and all suggestions from users for changing the operating features of either receiver, at least as far as programming!
Lot's of space in both boxes for some new hardware too?

Speak up and maybe we can make these RACAL's more useful and extend their operating life.

If anyone is looking for 6778C receiver modules, I now have a very large inventory.

73,

John

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 4/11/2012 6:49 AM, graham787 wrote:
> > I understand the 1792 and 6790 was a combined UK US creation
> Indeed but the GM was kind of crippled by the US Govt requirements to
> have those odd fixed tuning rates and to lose the memories, and omit the
> RF amp and the front end protection that it gave, but a lot of the
> circuitry is indeed common to both. But I guess the plug in filters
> had some advantages.
> >
> > No from my memory, the ra1792 was under development in the annex from western road, where the 1771/1772 were just in production , that was 1974/1975,
> And Graham, you were a lot nearer to that than me :^)
> >
> > It was the first microprocessor based radio,
> I hate to contradict you seeing as you were there, but I think that
> honour maybe goes to the US made RA6778A and B at least as far as Racal
> was concerned. I have one here and it's quite interesting. They took
> the RF stuff from the 1772 and married it to a very early version of the
> F8 microprocessor control circuitry where each part of what became the
> single board in the 1792 and the GM was on a separate plug in board.
> The CPU itself on one board, RAM on another, eproms (8 kB 2708s),
> battery back up and so on all on separate boards. Even that had 16
> memories available. All the wire wrap connections underneath are a
> wonder to behold. The later version 6778C had all the control stuff on
> the one board, like the 1792 and GM.
>

> As you say it was a joint project without a doubt, and I'm sure there
> was a lot of common work going on. The F8 series was the first
> microprocessor available as far as I know, so a logical first choice,
> but I am surprised that they stuck with it for so long in the UK; later
> versions of the GM here had Z80 processor boards, even though they were
> made to appear exactly like the older boards to the user...
>
> The original RA6790, without the GM suffix, would have appeared at about
> the same time as the Mark I 1792s with the square flat push buttons I
> guess. There are not a lot of either around now. I have a version of
> what seems to be a somewhat inaccurate (draft?) RA1792 manual published
> from Racal Maryland, so maybe they did try to sell some of the 1792s
> here early on.
>
> 73
>
> Dan
>

1934. Re: [Racal6790GM] For sale, a Racal RA-1792 receiver / So Cal Area.

Yahoo group: Racal6790GM
Date: 2012-05-07 13:57:42 UTC
From: oscar873@aol.com
Topic: 1932 Message: 1934

Darrell,

What is your asking price?
did u sell the other racals?

Al Royce

-----Original Message-----
From: Darrell <dh1338@...>
To: Racal6790GM <Racal6790GM@yahoogroups.com>
Sent: Sun, May 6, 2012 4:31 pm
Subject: [Racal6790GM] For sale, a Racal RA-1792 receiver / So Cal Area.

I have for sale a Racal RA-1792 receiver. I have had it a few years now and it has always worked perfect. It is in immaculate condition, both inside and out. I am assuming it came from Telford Electronics as it has a few of their stickers on it. It is loaded with filters and the rs232 board. The displays are perfect and the backup battery looks to have been recently replaced. Anyone interested can call me at 805-827-2927 or email me at dh1338@hotmail.com I am in the Ventura County area / Southern California.

Thanks.

1935. RE: [Racal6790GM] For sale, a Racal RA-1792 receiver / So Cal Area.

Yahoo group: Racal6790GM
Date: 2012-05-07 14:39:34 UTC
From: darrell huth
Topic: 1932 Message: 1935

Al:

Price is 900.00 for the 1792. Sold the others !

Darrell

To: Racal6790GM@yahoogroups.com
From: oscar873@...
Date: Mon, 7 May 2012 09:57:42 -0400
Subject: Re: [Racal6790GM] For sale, a Racal RA-1792 receiver / So Cal Area.

Darrell,

What is your asking price?

did u sell the other racals?

Al Royce

-----Original Message-----

From: Darrell <dh1338@...>

To: Racal6790GM <Racal6790GM@yahoogroups.com>

Sent: Sun, May 6, 2012 4:31 pm

Subject: [Racal6790GM] For sale, a Racal RA-1792 receiver / So Cal Area.

I have for sale a Racal RA-1792 receiver. I have had it a few years now and it has always worked perfect. It is in immaculate condition, both inside and out. I am assuming it came from Telford Electronics as it has a few of their stickers on it. It is loaded with filters and the rs232 board. The displays are perfect and the backup battery looks to have been recently replaced. Anyone interested can call me at 805-827-2927 or email me at dh1338@... I am in the Ventura County area / Southern California.

Thanks.

1936. HI DUDE PLEASE VIEW THIS

Yahoo group: Racal6790GM
Date: 2012-05-09 07:26:00 UTC
From: kvenkatesh654
Topic: 1936 Message: 1936

http://amigos.com/go/g1364048-pct
http://bigchurch.com/go/g1364048-pct
http://indianfriendfinder.com/go/g1364048-pct

1937. eBay boards

Yahoo group: Racal6790GM
Date: 2012-05-16 14:36:10 UTC
From: Dan Rae
Topic: 1937 Message: 1937

Someone has parted out a radio and is selling the boards on eBay.

Be aware these are /not/ from a 6790/GM as advertised but from the earlier plain 6790, some may be interchangeable, but most aren't.

If you want to see what leaking battery damage looks like take a look at the A6A2 board :^(

dr

1938. Re: [Racal6790GM] eBay boards

Yahoo group: Racal6790GM
Date: 2012-05-16 15:04:17 UTC
From: Dan Rae
Topic: 1937 Message: 1938

On 5/16/2012 7:36 AM, Dan Rae wrote:
>
>
> Someone has parted out a radio and is selling the boards on eBay.
>
> Be aware these are /not/ from a 6790/GM as advertised but from the
> earlier plain 6790, some may be interchangeable, but most aren't.
>
> If you want to see what leaking battery damage looks like take a look
> at the A6A2 board :^(
>
> dr
>
>
>
>
>
OK, he has said he will revise the listings.

dr

1939. Re: [Racal6790GM] eBay boards

Yahoo group: Racal6790GM
Date: 2012-05-16 16:05:17 UTC
From: Tom B
Topic: 1937 Message: 1939

Nothing between the 6790 and 6790/GM is interchangeable.

Tom Bryan
N3AJA

> Someone has parted out a radio and is selling the boards on eBay.
>
> Be aware these are /not/ from a 6790/GM as advertised but from the
> earlier plain 6790, some may be interchangeable, but most aren't.
>
> If you want to see what leaking battery damage looks like take a look at
> the A6A2 board :^(
>
> dr
>

1940. A9 woes

Yahoo group: Racal6790GM
Date: 2012-05-16 18:22:40 UTC
From: Bob Betts
Topic: 1937 Message: 1940

Hello group:
My 6790/GM went dark today. I have display digits, but no LED back lights, no micro response...all zeros, keys are unresponsive.
So I yanked the cover and discovered (by selective unplugging) that the +15 regulator is being pulled down by the A9.I can disassemble the front panel and all that stuff (an easy job, but rather time consuming and tedious), to check things out. But before I do that, I was wondering if anyone else had a similar symptom and what was found.
Thanks in advance. Any tips to save time would be appreciated.
Good signals to all,
Bob, N1KPR

http://www.bobsamerica.com/swl.html* Music * Audio * Radio *"It's all good"

1941. RE: [Racal6790GM] A9 woes

Yahoo group: Racal6790GM
Date: 2012-05-16 18:26:01 UTC
From: Carcia, Francis A HS
Topic: 1937 Message: 1941

You suffer from shorted cap sickness. Easy to fix

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Bob Betts
Sent: Wednesday, May 16, 2012 2:23 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] A9 woes

Hello group:

My 6790/GM went dark today. I have display digits, but no LED back lights, no micro response...all zeros, keys are unresponsive.

So I yanked the cover and discovered (by selective unplugging) that the +15 regulator is being pulled down by the A9.
I can disassemble the front panel and all that stuff (an easy job, but rather time consuming and tedious), to check things out. But before I do that, I was wondering if anyone else had a similar symptom and what was found.

Thanks in advance. Any tips to save time would be appreciated.

Good signals to all,

Bob, N1KPR
http://www.bobsamerica.com/swl.html
* Music * Audio * Radio *
"It's all good"

1942. RE: [Racal6790GM] A9 woes

Yahoo group: Racal6790GM
Date: 2012-05-16 18:35:05 UTC
From: Bob Betts
Topic: 1937 Message: 1942

I kind'a figured I was going to have to do some "tantalum searching".
Thanks for confirming my thoughts.
bb

http://www.bobsamerica.com* Music * Audio * Radio *"It's all good"

--- On Wed, 5/16/12, Carcia, Francis A HS <francis.carcia@...> wrote:

From: Carcia, Francis A HS <francis.carcia@...>
Subject: RE: [Racal6790GM] A9 woes
To: "Racal6790GM@yahoogroups.com" <Racal6790GM@yahoogroups.com>
Date: Wednesday, May 16, 2012, 2:26 PM

You suffer from shorted cap sickness. Easy to fix

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
On Behalf Of Bob Betts

Sent: Wednesday, May 16, 2012 2:23 PM

To: Racal6790GM@yahoogroups.com

Subject: [Racal6790GM] A9 woes

Hello group:

My 6790/GM went dark today. I have display digits, but no LED back lights, no micro response...all zeros, keys are unresponsive.

So I yanked the cover and discovered (by selective unplugging) that the +15 regulator is being pulled down by the A9.

I can disassemble the front panel and all that stuff (an easy job, but rather time consuming and tedious), to check things out. But before I do that, I was wondering if anyone else had a similar symptom and what was found.

Thanks in advance. Any tips to save time would be appreciated.

Good signals to all,

Bob, N1KPR
http://www.bobsamerica.com/swl.html
* Music * Audio * Radio *
"It's all good"

1943. Re: [Racal6790GM] A9 woes

Yahoo group: Racal6790GM
Date: 2012-05-16 18:43:01 UTC
From: Dan Rae
Topic: 1937 Message: 1943

On 5/16/2012 11:22 AM, Bob Betts wrote:
>
>
> Hello group:
>
> My 6790/GM went dark today. I have display digits, but no LED back
> lights, no micro response...all zeros, keys are unresponsive.
>
> So I yanked the cover and discovered (by selective unplugging) that
> the +15 regulator is being pulled down by the A9.
>
Bob, there's a 99% chance that a tantalum cap that has gone short circuit on the +15V rail. It could be on the A6A2 board or somewhere else since a lot of the power supplies pass through the A9 board. Often on the A8 or A7 also. I don't remember one on the A9 board itself.

Get your ohmmeter out. Last time it happened to me was on the first mixer board, again...

If it's a 25 V working part some say it's probably worth using a 35V part although I've no firm evidence for that.

Dan

1944. Re: [Racal6790GM] A9 woes

Yahoo group: Racal6790GM
Date: 2012-05-16 19:33:37 UTC
From: Bob Betts
Topic: 1937 Message: 1944

Thanks Dan, I'll start poking around this weekend.
Bob

http://www.bobsamerica.com* Music * Audio * Radio *"It's all good"

--- On Wed, 5/16/12, Dan Rae <danrae@...> wrote:

From: Dan Rae <danrae@...>
Subject: Re: [Racal6790GM] A9 woes
To: Racal6790GM@yahoogroups.com
Date: Wednesday, May 16, 2012, 2:43 PM

On 5/16/2012 11:22 AM, Bob Betts wrote:

Hello group:

My 6790/GM went dark today. I have display digits,
but no LED back lights, no micro response...all zeros,
keys are unresponsive.

So I yanked the cover and discovered (by selective
unplugging) that the +15 regulator is being pulled down
by the A9.

Bob, there's a 99% chance that a tantalum cap that has gone short
circuit on the +15V rail. It could be on the A6A2 board or
somewhere else since a lot of the power supplies pass through the A9
board. Often on the A8 or A7 also. I don't remember one on the A9
board itself.

Get your ohmmeter out. Last time it happened to me was on the first
mixer board, again...

If it's a 25 V working part some say it's probably worth using a 35V
part although I've no firm evidence for that.

Dan

1945. RE: [Racal6790GM] A9 woes

Yahoo group: Racal6790GM
Date: 2012-05-16 20:06:01 UTC
From: Robert Allen
Topic: 1937 Message: 1945

Noob electronics question: regularly I hear about checking caps on stereo receivers and now shortwave receivers. My question is simple: is there a way to check the caps while they’re on the board, rather than desoldering and checking each one? It’s seemed to me that if you measure them in-situ you’re measuring the complete circuit, not the cap.

Thanks,

Robert

I kind'a figured I was going to have to do some "tantalum searching".

1946. RE: [Racal6790GM] A9 woes

Yahoo group: Racal6790GM
Date: 2012-05-16 20:33:04 UTC
From: Carcia, Francis A HS
Topic: 1937 Message: 1946

Not really. First you look at all the caps to see which one looks like it has been heated or if a smoke release port has formed.
A warm cap is another good clue.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Robert Allen
Sent: Wednesday, May 16, 2012 4:06 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] A9 woes

Noob electronics question: regularly I hear about checking caps on stereo receivers and now shortwave receivers. My question is simple: is there a way to check the caps while they’re on the board, rather than desoldering and checking each one? It’s seemed to me that if you measure them in-situ you’re measuring the complete circuit, not the cap.

Thanks,

Robert

I kind'a figured I was going to have to do some "tantalum searching".

1947. RE: [Racal6790GM] A9 woes

Yahoo group: Racal6790GM
Date: 2012-05-17 00:51:25 UTC
From: robinson@tuberadio.com
Topic: 1937 Message: 1947

Hi there,

There is a device called an ESR tester.
"Equivalent Series Resistance"
basically a low ohms meter.

It can be used in circuit,
as the testing volatge is so low
that it does not turn on semiconductors.
A good capacitor should have a value
dependent on its capacity and voltage,
and there is a chart on the front to show what it should be.
It finds open capacitors easily, as the ESR is too high.
It shows short circuit capacitors as having too low an ESR.
Remove the suspect capacitor and verify with a normal multimeter.

There are several ESR meters on the net,
kits, professional, and lash ups.
I use the the Dick Smith ESR tester (now out of production),
works great.
There is a copy available called the "Blue ESR meter"
(one kit on ebay now item 400295167111)
I have no relation to the seller.
Do a search, there are different types at all sorts of prices.

But first,
just look at every tantalum,
see if any are burnt or discoloured.
Then change them all!

Regards
Ray

> Noob electronics question: regularly I hear about checking caps on stereo
> receivers and now shortwave receivers. My question is simple: is there a
> way to check the caps while they’re on the board, rather than
> desoldering and checking each one? It’s seemed to me that if you
> measure them in-situ you’re measuring the complete circuit, not the cap.
>
>
>
> Thanks,
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>
> Robert

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>
> I kind'a figured I was going to have to do some "tantalum searching".
>
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>

1948. Re: A9 woes

Yahoo group: Racal6790GM
Date: 2012-05-16 21:26:36 UTC
From: Nick DArcy
Topic: 1937 Message: 1948

There used to be an instrument called a "Bug Hound" made, if memory serves, by GenRad; I've got no idea if they're still made. Amongst other things, it was able to pass a limited current down a circut board track. It also had a very sensitive voltmeter in it so by probing along the track, due to the track's resistance, you could see where most of the current was going. Very useful for finding shorted caps, solder bridges etc. Worked best on thin tracks but not on power planes!
Regards,
Nick (another ex-racalite!)

--- In Racal6790GM@yahoogroups.com, "Robert Allen" <rallen@...> wrote:
>
> Noob electronics question: regularly I hear about checking caps on stereo receivers and now shortwave receivers. My question is simple: is there a way to check the caps while theyâ□□re on the board, rather than desoldering and checking each one? Itâ□□s seemed to me that if you measure them in-situ youâ□□re measuring the complete circuit, not the cap.
>
>
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> Thanks,
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> Robert
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>
> I kind'a figured I was going to have to do some "tantalum searching".
>

1949. RE: [Racal6790GM] A9 woes

Yahoo group: Racal6790GM
Date: 2012-05-17 11:33:43 UTC
From: Terry
Topic: 1937 Message: 1949

The issue is these are not 100% reliable. You could show a good cap and it is bad. It may help find some but may not find all so might add to the frustration. I am going by what I have read as I was looking for something as well. Anyone used these and have had solid results?

Terry
AB8AL

--- On Thu, 5/17/12, robinson@... <robinson@tuberadio.com> wrote:

From: robinson@... <robinson@...m>
Subject: RE: [Racal6790GM] A9 woes
To: Racal6790GM@yahoogroups.com
Date: Thursday, May 17, 2012, 4:51 AM

Hi there,

There is a device called an ESR tester.
"Equivalent Series Resistance"
basically a low ohms meter.

It can be used in circuit,
as the testing volatge is so low
that it does not turn on semiconductors.
A good capacitor should have a value
dependent on its capacity and voltage,
and there is a chart on the front to show what it should be.
It finds open capacitors easily, as the ESR is too high.
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Remove the suspect capacitor and verify with a normal multimeter.

There are several ESR meters on the net,
kits, professional, and lash ups.
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Regards
Ray

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> way to check the caps while theyâ€™re on the board, rather than
> desoldering and checking each one? Itâ€™s seemed to me that if you
> measure them in-situ youâ€™re measuring the complete circuit, not the cap.
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> Thanks,
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>
>
> Robert
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>
> I kind'a figured I was going to have to do some "tantalum searching".
>
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>

1950. Re: A9 woes

Yahoo group: Racal6790GM
Date: 2012-05-20 17:33:30 UTC
From: Bob Betts
Topic: 1937 Message: 1950

Hi Group:
I want to thank everyone that responded to my original post with your tips and experiences. This is the first time I had to track down a bad tantalum cap in a Racal. I was aware of the chronic problems, but have been lucky, I guess, for a bunch of years.
Anyhow, the 6790/GM is now running and undergoing an all-day burn in. The input to the A8 board had a shorted cap. It's been replaced with a 50 volt cap (non-tant).
So the old radio is playing beautifully and thanks to Gary Wingerd's LED kit, looks sweet and makes operation a joy.

I've been a Watkins-Johnson collector for many years, so am familiar with their ailments and diagnosis/repair shortcuts. There's been 5 or 6 Racals in here over the years, but due to "collectors' obsession" I had to thin the shack out a bit, so I kept the 6790/GM and a 6793A. I love the W-J stuff (probably b/c I'm used to it) mostly for the ergonomics and the mother/daughter card architecture sure makes servicing easier. But when there's serious work to be done, chasing DX or certain weak signal operations, I usually flip on a Racal. Most of my Ham work is done through a T/R switch so that I can have the absolutely best receiver capabilities for making contacts that many Ham transceivers just cannot hear. Of course, SWLing is still my favorite (and well-deserved) pass time.

Sorry to go on so much, but thought maybe others would care to comment on the Ham/SWL crossover aspect, or subjective comparisons to other favorite receivers.

Thanks again, guys.

Bob, N1KPR

--- On Wed, 5/16/12, Bob Betts <rwbetts@...> wrote:

From: Bob Betts <rwbetts@...>
Subject: A9 woes
To: Racal6790GM@yahoogroups.com
Date: Wednesday, May 16, 2012, 2:22 PM

Hello group:

My 6790/GM went dark today. I have display digits, but no LED back lights, no micro response...all zeros, keys are unresponsive.

So I yanked the cover and discovered (by selective unplugging) that the +15 regulator is being pulled down by the A9.
I can disassemble the front panel and all that stuff (an easy job, but rather time consuming and tedious), to check things out. But before I do that, I was wondering if anyone else had a similar symptom and what was found.

Thanks in advance. Any tips to save time would be appreciated.

Good signals to all,

Bob, N1KPR

http://www.bobsamerica.com/swl.html
* Music * Audio * Radio *
"It's all good"

1951. stupid question

Yahoo group: Racal6790GM
Date: 2012-05-21 03:58:29 UTC
From: echelon396
Topic: 1951 Message: 1951

what is the name of the guru back east (us) who does the VLF mods for the 6790? i am selling my on ebay and i want to write a description.

thanks

1952. Re: [Racal6790GM] stupid question

Yahoo group: Racal6790GM
Date: 2012-05-21 05:00:00 UTC
From: gewingerd@netzero.com
Topic: 1951 Message: 1952
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1953. Re: [Racal6790GM] stupid question

Yahoo group: Racal6790GM
Date: 2012-05-21 13:46:04 UTC
From: g4gjl@btopenworld.com
Topic: 1951 Message: 1953

OK, so now you have got me interested!

What are the VLF Mods?

How low will it go?

Pete
G4GJL

From: echelon396 <j.wing@...>
To: Racal6790GM@yahoogroups.com
Sent: Monday, 21 May 2012, 4:58
Subject: [Racal6790GM] stupid question

what is the name of the guru back east (us) who does the VLF mods for the 6790? i am selling my on ebay and i want to write a description.

thanks

1954. Re: [Racal6790GM] stupid question

Yahoo group: Racal6790GM
Date: 2012-05-21 15:35:35 UTC
From: gewingerd@netzero.com
Topic: 1951 Message: 1954
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1955. Forced filter procedure.

Yahoo group: Racal6790GM
Date: 2012-05-26 01:01:10 UTC
From: William
Topic: 1955 Message: 1955

Hi All
I have two Bullova 2.7KHz 455KHz USB & LSB crystal filters I am attempting to install. I have swept both filters and they are OK. Bite returns filter 1 is skewed (LSB filter) from centre which of course it is. USB filter in slot 2 is accepted by bite. Operation after this procedure is fine for LSB but USB is very high pitched. I tried the forced filter procedure as I understand it. (Symetrical filters first then USB followed by LSB). This seems strange to me when LSB (slot 1) and USB (slot 2) filters are followed by filters (sym) in ascending slot order. I end up with either the LSB or the USB filter being OK and the other useless. Can anyone help?
Bill

1956. RA6793A A6A2

Yahoo group: Racal6790GM
Date: 2012-05-26 15:27:09 UTC
From: vk5abc
Topic: 1956 Message: 1956

Hello ALL

Is there anyone here with a RA6793A as I need a photo of the A6A2 cpu card.

73's Lee.

1957. Re: [Racal6790GM] RA6793A A6A2

Yahoo group: Racal6790GM
Date: 2012-05-26 16:24:16 UTC
From: Dan Rae
Topic: 1956 Message: 1957

On 5/26/2012 8:27 AM, vk5abc wrote:
> Hello ALL
>
> Is there anyone here with a RA6793A as I need a photo of the A6A2 cpu card.
>
> 73's Lee.
>
>
Lee, I have one somewhere, it is the same as was fitted to the later GMs, but with different firmware, finding it may not be that easy. I'm not sure what you want a photo for though; all the information is in the manual. I did build one up once from a new spare blank board that Toronto Surplus was selling and it was a pretty straightforward operation.

73 - Dan

1958. Re: [Racal6790GM] RA6793A A6A2

Yahoo group: Racal6790GM
Date: 2012-05-26 17:05:23 UTC
From: Phill Simmons
Topic: 1956 Message: 1958
Attachments: 1 described; binary payloads are missing from this source WARC

Hi,
I manufacture replacement A6A2s for the 1792/ 6790 / 6793 series of receivers.
I am attaching a picture of one of my boards.

If you need further information you can contact me at: phill@...
Rgds,
Phill

From: Dan Rae <danrae@...t>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, 26 May 2012, 17:24
Subject: Re: [Racal6790GM] RA6793A A6A2

On 5/26/2012 8:27 AM, vk5abc wrote:
> Hello ALL
>
> Is there anyone here with a RA6793A as I need a photo of the A6A2 cpu card.
>
> 73's Lee.
>
>
Lee, I have one somewhere, it is the same as was fitted to the later
GMs, but with different firmware, finding it may not be that easy. I'm
not sure what you want a photo for though; all the information is in the
manual. I did build one up once from a new spare blank board that
Toronto Surplus was selling and it was a pretty straightforward operation.

73 - Dan

1959. Ra1792 Keyboard Switches

Yahoo group: Racal6790GM
Date: 2012-05-26 19:27:44 UTC
From: Lucidsounds
Topic: 1959 Message: 1959

Hi,

I'm new to this group. Many years ago I used to professionally service quite a few models of Racal sets including the RA1792.

Recently I acquired a couple of them and am going about getting them up to scratch. One is almost there, but the second is taking a little longer.

One of the things I need is a pair of the keypad switches, these are marked FR Electronics RSM83-1A.

Does anyone happen to know if these are available anywhere?

Many thanks in advance,

Keith.

1960. Looking at a RA6790/GM

Yahoo group: Racal6790GM
Date: 2012-05-26 21:46:37 UTC
From: Michael March
Topic: 1960 Message: 1960

Hello from a new member...

I am looking at a RA6790/GM. Could someone compare it to a Drake R8B?
It is a rack mount unit with 3 filters installed and new panel lamps.

Thanks in advance...

Mike in Virginia

1961. Re: Looking at a RA6790/GM

Yahoo group: Racal6790GM
Date: 2012-05-27 00:54:17 UTC
From: Michael March
Topic: 1960 Message: 1961

Correction:
Filters are -- 20, 8.2, 3.2, 1.1 and 0.5. kHz.

Mike

--- In Racal6790GM@yahoogroups.com, "Michael March" <mikek4qu@...> wrote:
>
> Hello from a new member...
>
> I am looking at a RA6790/GM. Could someone compare it to a Drake R8B?
> It is a rack mount unit with 3 filters installed and new panel lamps.
>
> Thanks in advance...
>
> Mike in Virginia
>

1962. Re: [Racal6790GM] Ra1792 Keyboard Switches

Yahoo group: Racal6790GM
Date: 2012-05-27 14:28:06 UTC
From: mummyshortlegs@waitrose.com
Topic: 1959 Message: 1962

Hi, recovered dead switch on my 1792, probably the most used as it was the ENTER button by squirting aerosol cleaner down every crevice I could find, then execising several times.I used Servisol Super 10. Sounds awful but still working great. Regards Kevin G3ZMC

26 2012, Lucidsounds wrote:

Hi,

I'm new to this group. Many years ago I used to professionally service quite a few models of Racal sets including the RA1792.

Recently I acquired a couple of them and am going about getting them up to scratch. One is almost there, but the second is taking a little longer.

One of the things I need is a pair of the keypad switches, these are marked FR Electronics RSM83-1A.

Does anyone happen to know if these are available anywhere?

Many thanks in advance,

Keith.

1963. Newbie...

Yahoo group: Racal6790GM
Date: 2012-05-27 15:56:31 UTC
From: taidllanfair
Topic: 1963 Message: 1963

Hi,

I've recently joined the group and finding all the postings, files and photos very interesting.

I'm in the UK and looking for an RA1772 or something similar. Thought I'd struck lucky a few days ago when I found an RA1778 for sale but before we agreed on a price the seller mailed me to say the radio had developed a fault... It sounds as if it's temperature related, on switch on the radio works but quickly goes faulty, appearing to 'howl' (seller's description of the fault...). Switching to external oscillator on the back panel then back again and the radio works ok for a bit then starts playing up again... So either he manages to fix it or I might persuade him to sell it 'as is'.

Anyone here give me some idea of UK prices for these radios, including non-workers ?

The RA1778's widest filter is 3kc/s and as I do a fair bit of listening to hf broadcasts I'd like a wider one - how easy are these filters to source and at what price ?

Thanks for your input,

John

1964. Re: [Racal6790GM] Ra1792 Keyboard Switches

Yahoo group: Racal6790GM
Date: 2012-05-27 17:05:18 UTC
From: Lucidsounds
Topic: 1959 Message: 1964

Hi,

Yes that sounds like a good plan. I have two of these switches that had gone down. One I was able to fix by just giving the outer case a good tap with a screwdriver handle. The second one initially also responded well to this treatment but on re-fitting it, I see it still doesn't do anything (LSB mode switch). I'm thinking I could always swap it with the ISB switch if I can't fix it.

Cheers,

Keith
G4IDU

----- Original Message -----
From: mummyshortlegs@...
To: Racal6790GM@yahoogroups.com
Sent: Sunday, May 27, 2012 3:28 PM
Subject: Re: [Racal6790GM] Ra1792 Keyboard Switches

Hi, recovered dead switch on my 1792, probably the most used as it was the ENTER button by squirting aerosol cleaner down every crevice I could find, then execising several times.I used Servisol Super 10. Sounds awful but still working great. Regards Kevin G3ZMC

26 2012, Lucidsounds wrote:

Hi,

I'm new to this group. Many years ago I used to professionally service quite a few models of Racal sets including the RA1792.

Recently I acquired a couple of them and am going about getting them up to scratch. One is almost there, but the second is taking a little longer.

One of the things I need is a pair of the keypad switches, these are marked FR Electronics RSM83-1A.

Does anyone happen to know if these are available anywhere?

Many thanks in advance,

Keith.

1965. Re: [Racal6790GM] Ra1792 Keyboard Switches

Yahoo group: Racal6790GM
Date: 2012-05-27 17:56:27 UTC
From: Dan Rae
Topic: 1959 Message: 1965

Aren't those magnetic switches? i.e. with a little reed switch and a magnetic plunger. If so, no amount of cleaning is going to help.
Where I've had them go in the past, I've always found spares from other panels...

Dan

1966. Re: [Racal6790GM] Ra1792 Keyboard Switches

Yahoo group: Racal6790GM
Date: 2012-05-27 17:59:21 UTC
From: Lucidsounds
Topic: 1959 Message: 1966

Hmmm, That might explain why tapping it with a tool made a difference, if the reed is stuck in one position.

----- Original Message -----
From: Dan Rae
To: Racal6790GM@yahoogroups.com
Sent: Sunday, May 27, 2012 6:56 PM
Subject: Re: [Racal6790GM] Ra1792 Keyboard Switches

Aren't those magnetic switches? i.e. with a little reed switch and a
magnetic plunger. If so, no amount of cleaning is going to help.
Where I've had them go in the past, I've always found spares from other
panels...

Dan

1967. Re: [Racal6790GM] Ra1792 Keyboard Switches

Yahoo group: Racal6790GM
Date: 2012-05-27 18:19:49 UTC
From: Dan Rae
Topic: 1959 Message: 1967

On 5/27/2012 10:59 AM, Lucidsounds wrote:
>
>
> Hmmm, That might explain why tapping it with a tool made a difference,
> if the reed is stuck in one position.

And if the magnet has weakened... I have had one come back to life for no good reason that I could see. It's been a while but i think the top half comes off and you can see the reed. Maybe the magnets could be re-magnetised?

Dan

1968. Hammond cabinet

Yahoo group: Racal6790GM
Date: 2012-05-28 15:08:13 UTC
From: Michael March
Topic: 1968 Message: 1968

Does anyone have the model number/distributor for the Hammond cabinet that is deep enough to fit the 67890? Thanks and happy Memorial Day.

1969. Re: [Racal6790GM] Hammond cabinet

Yahoo group: Racal6790GM
Date: 2012-05-28 15:24:30 UTC
From: Dan Rae
Topic: 1968 Message: 1969

On 5/28/2012 8:08 AM, Michael March wrote:
> Does anyone have the model number/distributor for the Hammond cabinet that is deep enough to fit the 67890? Thanks and happy Memorial Day.
>
There isn't a stock one, the deepest one they sell leaves about two
inches of radio sticking out the back. Todd Roberts who is on this list
did have a few made specially deep by them which were very nice, but I
don't think he has any left. There is a stock Schroff cabinet, but
that is really expensive in the US.

73 - Dan

1970. Re: Newbie (looking for an RA1772/RA1778 in the UK...)

Yahoo group: Racal6790GM
Date: 2012-05-28 16:02:07 UTC
From: taidllanfair
Topic: 1963 Message: 1970

Hi,

Maybe I should have mentioned that I'm aware of the fact that there is an RA1778 group. It's not very active and I have applied to join a while back but application is still pending...

Regards,

--- In Racal6790GM@yahoogroups.com, "taidllanfair" <john@...> wrote:
>
> Hi,
>
> I've recently joined the group and finding all the postings, files and photos very interesting.
>
> I'm in the UK and looking for an RA1772 or something similar. Thought I'd struck lucky a few days ago when I found an RA1778 for sale but before we agreed on a price the seller mailed me to say the radio had developed a fault... It sounds as if it's temperature related, on switch on the radio works but quickly goes faulty, appearing to 'howl' (seller's description of the fault...). Switching to external oscillator on the back panel then back again and the radio works ok for a bit then starts playing up again... So either he manages to fix it or I might persuade him to sell it 'as is'.
>
> Anyone here give me some idea of UK prices for these radios, including non-workers ?
>
> The RA1778's widest filter is 3kc/s and as I do a fair bit of listening to hf broadcasts I'd like a wider one - how easy are these filters to source and at what price ?
>
> Thanks for your input,
>
> John
>

1971. Re: [Racal6790GM] Hammond cabinet

Yahoo group: Racal6790GM
Date: 2012-05-28 16:14:16 UTC
From: casy_ch@tbwil.ch
Topic: 1968 Message: 1971

Hi Dan

Your price remark does not apply in the US only. In Switzerland and Germany (manufacture) it is on the sky side for what it is! Rittal is a bit better but still expensive for us.

73 de Jean-Claude, HB3YDH

Am 28.05.2012 17:24, schrieb Dan Rae:
>
> On 5/28/2012 8:08 AM, Michael March wrote:
> > Does anyone have the model number/distributor for the Hammond
> cabinet that is deep enough to fit the 67890? Thanks and happy
> Memorial Day.
> >
> There isn't a stock one, the deepest one they sell leaves about two
> inches of radio sticking out the back. Todd Roberts who is on this list
> did have a few made specially deep by them which were very nice, but I
> don't think he has any left. There is a stock Schroff cabinet, but
> that is really expensive in the US.
>
> 73 - Dan
>
>

--
Vy 73 de Jean-Claude, HB3YDH

1972. Re: [Racal6790GM] Hammond cabinet

Yahoo group: Racal6790GM
Date: 2012-05-28 18:56:35 UTC
From: G ..
Topic: 1968 Message: 1972

And of course , at Bracknell , the local coffin maker used to make up some nice polished rose wood boxes , with brass fittings and a plate inscribed to the lucky 'receiver' of the gift !

G..

From: Dan Rae
Sent: Monday, May 28, 2012 4:24 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Hammond cabinet

On 5/28/2012 8:08 AM, Michael March wrote:
> Does anyone have the model number/distributor for the Hammond cabinet that is deep enough to fit the 67890? Thanks and happy Memorial Day.
>
There isn't a stock one, the deepest one they sell leaves about two
inches of radio sticking out the back. Todd Roberts who is on this list
did have a few made specially deep by them which were very nice, but I
don't think he has any left. There is a stock Schroff cabinet, but
that is really expensive in the US.

73 - Dan

1973. Re: [Racal6790GM] Hammond cabinet

Yahoo group: Racal6790GM
Date: 2012-05-28 15:56:58 UTC
From: Leigh
Topic: 1968 Message: 1973

I have a new Schroff cabinet sized for the Racal receiver for sale, $225 firm. Pick up only in the Seattle area. If anyone is interested, please contact me (Mike, K7PI) off list at bipi@...

----- Original Message -----
From: "Dan Rae" <danrae@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Monday, May 28, 2012 8:24 AM
Subject: Re: [Racal6790GM] Hammond cabinet

> On 5/28/2012 8:08 AM, Michael March wrote:
>> Does anyone have the model number/distributor for the Hammond cabinet
>> that is deep enough to fit the 67890? Thanks and happy Memorial Day.
>>
> There isn't a stock one, the deepest one they sell leaves about two
> inches of radio sticking out the back. Todd Roberts who is on this list
> did have a few made specially deep by them which were very nice, but I
> don't think he has any left. There is a stock Schroff cabinet, but
> that is really expensive in the US.
>
> 73 - Dan
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1974. Re: Newbie...

Yahoo group: Racal6790GM
Date: 2012-05-29 20:15:57 UTC
From: enriqueeeeee2001
Topic: 1963 Message: 1974

Hello John,

I purchased a couple of years ago a Racal 1772 in this website:

http://www.armyradio.co.uk/arsc/customer/home.php

You can try and ask if they have one for sale,I think that mine was a little expensive I have seen some on ebay in much better condition and cheaper.

It usually has fitted the 8 Khz filter, although I think that its a litte wide for BCB Dxing. I was lucky and found a 6.8Khz McCoy filter, but still looking for a 6Khz filter.

My Racal developped a fault, the OUT OF LOCK does not work. So be warned that these old rigs needs some maintenance.

If you want a better receiver get the Racal 3701, many times Telford electronics has some for sale but the it is almost three times the price of the Racal 1772.

Good luck !

Cheers

--- In Racal6790GM@yahoogroups.com, "taidllanfair" <john@...> wrote:
>
> Hi,
>
> I've recently joined the group and finding all the postings, files and photos very interesting.
>
> I'm in the UK and looking for an RA1772 or something similar. Thought I'd struck lucky a few days ago when I found an RA1778 for sale but before we agreed on a price the seller mailed me to say the radio had developed a fault... It sounds as if it's temperature related, on switch on the radio works but quickly goes faulty, appearing to 'howl' (seller's description of the fault...). Switching to external oscillator on the back panel then back again and the radio works ok for a bit then starts playing up again... So either he manages to fix it or I might persuade him to sell it 'as is'.
>
> Anyone here give me some idea of UK prices for these radios, including non-workers ?
>
> The RA1778's widest filter is 3kc/s and as I do a fair bit of listening to hf broadcasts I'd like a wider one - how easy are these filters to source and at what price ?
>
> Thanks for your input,
>
> John
>

1975. Looking for a 26 pin connector

Yahoo group: Racal6790GM
Date: 2012-06-03 20:36:47 UTC
From: Michael March
Topic: 1975 Message: 1975

Anyone have the round 26 pin connector for the 6790/GM? Gary is out of stock. Thanks in advance. Mike

1976. Re: [Racal6790GM] Looking for a 26 pin connector

Yahoo group: Racal6790GM
Date: 2012-06-04 06:15:25 UTC
From: Raymond Boute
Topic: 1975 Message: 1976

Dear Mike,

See
http://www.peigenesis.com/en/shop/part-information/MS3476L1626S/CAN/EACH/220758.html
and
http://www.peigenesis.com/shop/part-information/MS341716N/GLE/EACH/257997.html
Very expensive. Possibly better prices at Mouser.
Regards,
Raymond

At 22:36 2012-06-03, you wrote:
>
>
>Anyone have the round 26 pin connector for the
>6790/GM? Gary is out of stock. Thanks in advance. Mike
>
>

1977. Re: [Racal6790GM] Looking for a 26 pin connector

Yahoo group: Racal6790GM
Date: 2012-06-04 14:34:28 UTC
From: Tom Frobase
Topic: 1975 Message: 1977

I carefully de-soldered mine from the com board saved for the future.
I then soldered the required jumpers to the board and replaced the 26
pin with DB9 which fits nicely, I did need to add a couple of ferrite
beads to pins 2 and 3. Tom N3LLL

On 6/4/12, Raymond Boute <Raymond.Boute@...> wrote:
> Dear Mike,
>
> See
> http://www.peigenesis.com/en/shop/part-information/MS3476L1626S/CAN/EACH/220758.html
> and
> http://www.peigenesis.com/shop/part-information/MS341716N/GLE/EACH/257997.html
> Very expensive. Possibly better prices at Mouser.
> Regards,
> Raymond
>
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> At 22:36 2012-06-03, you wrote:
>>
>>
>>Anyone have the round 26 pin connector for the
>>6790/GM? Gary is out of stock. Thanks in advance. Mike
>>
>>
>

--
Sent from my mobile device

1978. Re: [Racal6790GM] Looking for a 26 pin connector

Yahoo group: Racal6790GM
Date: 2012-06-04 15:00:31 UTC
From: Mike March
Topic: 1975 Message: 1978

Hi Tom,
That may be an alternative. Apparently, that connector is unobtainium.
How many pins of the 26 are actually used?

Mike

On Mon, Jun 4, 2012 at 10:34 AM, Tom Frobase <tfrobase@...> wrote:

> **
>
>
> I carefully de-soldered mine from the com board saved for the future.
> I then soldered the required jumpers to the board and replaced the 26
> pin with DB9 which fits nicely, I did need to add a couple of ferrite
> beads to pins 2 and 3. Tom N3LLL
>
>
> On 6/4/12, Raymond Boute <Raymond.Boute@...> wrote:
> > Dear Mike,
> >
> > See
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> http://www.peigenesis.com/en/shop/part-information/MS3476L1626S/CAN/EACH/220758.html
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> >
>
> --
> Sent from my mobile device
>
>
>

--
Michael March, Adjunct
Lord Fairfax Comm. College
242 Clay Hill Dr.
Winchester, VA 22602
mikek4qu@...
540-662-4279 home
540-539-8500 cell

1979. Racal TA1813 transmitter output transistors

Yahoo group: Racal6790GM
Date: 2012-06-04 15:15:27 UTC
From: mummyshortlegs@waitrose.com
Topic: 1979 Message: 1979

hi all. does anyone know what the type number of the TA1813 output transistors is? the manual specifies as Racal special, but am assuming (hoping) this was because they were standard items matched by Racal during build. p.s. Dan- re RA1792 key switches didnt know they were magnetic reed, many thanks! : otherwise would just have swopped ENTER with little used ISB. Can only assume the physical abuse desoldering from board, prising body to find somewhere to inject the switchcleaner, excercising then resoldering got it going again. Its still working.Kind regards to all Kevin G3ZMC

1980. Re: [Racal6790GM] Looking for a 26 pin connector

Yahoo group: Racal6790GM
Date: 2012-06-04 21:42:41 UTC
From: Tom Frobase
Topic: 1975 Message: 1980

Just Rx Tx and ground. The rest set baud rate and parity ... Tom

On 6/4/12, Mike March <mikek4qu@...> wrote:
> Hi Tom,
> That may be an alternative. Apparently, that connector is unobtainium.
> How many pins of the 26 are actually used?
>
> Mike
>
> On Mon, Jun 4, 2012 at 10:34 AM, Tom Frobase <tfrobase@...> wrote:
>
>> **
>>
>>
>> I carefully de-soldered mine from the com board saved for the future.
>> I then soldered the required jumpers to the board and replaced the 26
>> pin with DB9 which fits nicely, I did need to add a couple of ferrite
>> beads to pins 2 and 3. Tom N3LLL
>>
>>
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>> >
>> http://www.peigenesis.com/en/shop/part-information/MS3476L1626S/CAN/EACH/220758.html
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>> >
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>>
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>
>
>
> --
> Michael March, Adjunct
> Lord Fairfax Comm. College
> 242 Clay Hill Dr.
> Winchester, VA 22602
> mikek4qu@...
> 540-662-4279 home
> 540-539-8500 cell
>

--
Sent from my mobile device

1981. Re: [Racal6790GM] Looking for a 26 pin connector

Yahoo group: Racal6790GM
Date: 2012-06-04 23:06:40 UTC
From: Mike March
Topic: 1975 Message: 1981

Good deal. I'll look into just bypassing the connector.
I may email you again for further advice.

Mike

On Mon, Jun 4, 2012 at 5:42 PM, Tom Frobase <tfrobase@...> wrote:

> **
>
>
> Just Rx Tx and ground. The rest set baud rate and parity ... Tom
>
>
> On 6/4/12, Mike March <mikek4qu@gmail.com> wrote:
> > Hi Tom,
> > That may be an alternative. Apparently, that connector is unobtainium.
> > How many pins of the 26 are actually used?
> >
> > Mike
> >
> > On Mon, Jun 4, 2012 at 10:34 AM, Tom Frobase <tfrobase@gmail.com> wrote:
> >
> >> **
>
> >>
> >>
> >> I carefully de-soldered mine from the com board saved for the future.
> >> I then soldered the required jumpers to the board and replaced the 26
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> >> On 6/4/12, Raymond Boute <Raymond.Boute@...> wrote:
> >> > Dear Mike,
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> >> > See
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> >>
> http://www.peigenesis.com/en/shop/part-information/MS3476L1626S/CAN/EACH/220758.html
> >> > and
> >> >
> >>
> http://www.peigenesis.com/shop/part-information/MS341716N/GLE/EACH/257997.html
> >> > Very expensive. Possibly better prices at Mouser.
> >> > Regards,
> >> > Raymond

> >> >
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> >> > At 22:36 2012-06-03, you wrote:
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Michael March, Adjunct
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Winchester, VA 22602
mikek4qu@...
540-662-4279 home
540-539-8500 cell

1982. SDR

Yahoo group: Racal6790GM
Date: 2012-06-14 09:53:49 UTC
From: stenstro
Topic: 510 Message: 1982

QST came today and they featured a software defined receiver for 455KC IF receivers. This seems like a good solution for the 6790GM.

Maybe we should develop a kit or maybe someone could manufacture a few of these devices.

Thanks.

MK Stenstrom

1983. Re: [Racal6790GM] SDR

Yahoo group: Racal6790GM
Date: 2012-06-14 10:21:54 UTC
From: Tom Frobase
Topic: 510 Message: 1983

I have been thinking about putting a converter together. I just
bought a couple of DDS sub-boards from China for the LO. I will keep
you all posted on my progress ... Tom

On 6/14/12, stenstro <stenstro@...> wrote:
> QST came today and they featured a software defined receiver for 455KC IF
> receivers. This seems like a good solution for the 6790GM.
>
> Maybe we should develop a kit or maybe someone could manufacture a few of
> these devices.
>
> Thanks.
>
> MK Stenstrom
>
>
>

--
Sent from my mobile device

1984. Re: SDR

Yahoo group: Racal6790GM
Date: 2012-06-14 10:56:11 UTC
From: graham787
Topic: 510 Message: 1984

Not seen the artical , but really no need, any of the SDR set up's will work , I have the 'softrock' sdr (tnx L) looking at the 455K and feeding via a m-delt-4 sound card to the PC, any of the software packages work with this set up.

Its possible to resolve SSB with this set up , past the point the rx own demodulator fails.. giving noise blanking , hetrodyne suppression etc , but for general use, time delays , pc/operator interface, software idiosyncrasies add and subtract to and from the overall usability of the system.

BUT ... Its now a uncomfortable truth, that a 'good' or 'moderate' SDR system will give better (s/n) results for very little £$ outlay..

G..

--- In Racal6790GM@yahoogroups.com, "stenstro" <stenstro@...> wrote:
>
> QST came today and they featured a software defined receiver for 455KC IF receivers. This seems like a good solution for the 6790GM.
>
> Maybe we should develop a kit or maybe someone could manufacture a few of these devices.
>
> Thanks.
>
> MK Stenstrom
>

1985. RE: [Racal6790GM] SDR

Yahoo group: Racal6790GM
Date: 2012-06-14 12:23:09 UTC
From: Carcia, Francis A HS
Topic: 510 Message: 1985

Softrock has been selling kits to interface 455kHz IF and others for years now. They are usually under $20.
I have a homebrew interface connected to my RA6830. You can’t beat the spectrum display.
Frank WA1GFZ

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of stenstro
Sent: Thursday, June 14, 2012 5:54 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] SDR

QST came today and they featured a software defined receiver for 455KC IF receivers. This seems like a good solution for the 6790GM.

Maybe we should develop a kit or maybe someone could manufacture a few of these devices.

Thanks.

MK Stenstrom

1986. Hi

Yahoo group: Racal6790GM
Date: 2012-06-20 21:27:00 UTC
From: excite395302@news3daily.com
Topic: 1986 Message: 1986

This article really helped me out. I'm already making extra money
http://cnbcnewstoday.com/

1987. A6 Failure

Yahoo group: Racal6790GM
Date: 2012-06-21 03:18:52 UTC
From: pwalton57
Topic: 1987 Message: 1987

This one is likely for Gary.

I have 2 receivers that have been on the shelf for a year without use. One worked well as I last used it a year ago. The other one came up with obvious faulty display information on both the control and frequency display. I have no control with any buttons and the radio will not go into BITE test. I pulled A6 out of the good radio...installed it into the bad radio...and the bad radio worked fine. I have 2 NICAD AA cells in an external case and they tested good on both A6 cards. I swapped the EPROMs from the good A6 to the bad A6 with no improvement. The one A6 card is definitely bad.

The frequency display reads 76.A666 6

The control display has the following displayed: BW KHZ, LSB, AUX, and the meter displays the > at +10 AF.

Any idea which chip or chips may be bad or how to trouble shoot the board? I have a few of the micro chips somewhere I put away in the junk box while they were still available. Both radios worked when I pulled them off the bench a year ago.

Great receivers but like other older equipment they need TLC from time to time to keep them going. I had been using a Globe Wireless RX-321 software controlled radio and plan on putting Softrock 455 boards into the Racals when I get them back in operation.

Thank you.

1988. Rurchase of 6790 GM

Yahoo group: Racal6790GM
Date: 2012-06-21 04:13:04 UTC
From: noel.lipscombe
Topic: 1988 Message: 1988

I would like to buy one of these receivers from someone in Australia.

Must be top quality and working.

Any offers?

1989. Re: [Racal6790GM] A6 Failure

Yahoo group: Racal6790GM
Date: 2012-06-21 18:33:59 UTC
From: gewingerd@netzero.net
Topic: 1987 Message: 1989
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1990. Re: [Racal6790GM] A6 Failure

Yahoo group: Racal6790GM
Date: 2012-06-21 20:01:41 UTC
From: Phill Simmons
Topic: 1987 Message: 1990

Hi,

To help anyone that wants to purchase a new A6A2 board for their RA6790/GM or RA1792 receiver ,
we now offer them for $240 plus Postage costs.
http://www.a6a2.co.uk/
Phill

From: "gewingerd@..." <gewingerd@...>
To: Racal6790GM@yahoogroups.com
Sent: Thursday, 21 June 2012, 19:33
Subject: Re: [Racal6790GM] A6 Failure

----- Forwarded Message -----

It could be the RAM chips, battery common ground via, crystal, microchip, interface chip, bad software or one of the other chips on the card. You can get a brand new card from "a6a2.co.uk" for about $300.00 and they come complete and tested.

Thanks,
Gary

Please note: message attached

From: "pwalton57" <mailto:pwalton57%40yahoo.com>
To: mailto:Racal6790GM%40yahoogroups.com
Subject: [Racal6790GM] A6 Failure
Date: Thu, 21 Jun 2012 03:18:52 -0000

This one is likely for Gary.

I have 2 receivers that have been on the shelf for a year without use. One worked well as I last used it a year ago. The other one came up with obvious faulty display information on both the control and frequency display. I have no control with any buttons and the radio will not go into BITE test. I pulled A6 out of the good radio...installed it into the bad radio...and the bad radio worked fine. I have 2 NICAD AA cells in an external case and they tested good on both A6 cards. I swapped the EPROMs from the good A6 to the bad A6 with no improvement. The one A6 card is definitely bad.

The frequency display reads 76.A666 6

The control display has the following displayed: BW KHZ, LSB, AUX, and the meter displays the > at +10 AF.

Any idea which chip or chips may be bad or how to trouble shoot the board? I have a few of the micro chips somewhere I put away in the junk box while they were still available. Both radios worked when I pulled them off the bench a year ago.

Great receivers but like other older equipment they need TLC from time to time to keep them going. I had been using a Globe Wireless RX-321 software controlled radio and plan on putting Softrock 455 boards into the Racals when I get them back in operation.

Thank you.

1991. Re: Newbie...

Yahoo group: Racal6790GM
Date: 2012-07-03 10:33:47 UTC
From: taidllanfair
Topic: 1963 Message: 1991

Hello,

Thanks for your input.

I have since purchased an RA1772. It appears to work well but needs some tidying up, mainly around the PSU area (there's a replacement bridge on the board just hanging on by it's wires...). It also changes frequency when switching tuning rates. I understand this is an adjustment issue and is quite common. The previous owner has promised me the Manuals so that should make things easier.

Thanks again,

John

--- In Racal6790GM@yahoogroups.com, "enriqueeeeee2001" <enriqueeeeee2001@...> wrote:
>
> Hello John,
>
> I purchased a couple of years ago a Racal 1772 in this website:
>
> http://www.armyradio.co.uk/arsc/customer/home.php
>
> You can try and ask if they have one for sale,I think that mine was a little expensive I have seen some on ebay in much better condition and cheaper.
>
> It usually has fitted the 8 Khz filter, although I think that its a
> litte wide for BCB Dxing. I was lucky and found a 6.8Khz McCoy filter, but still looking for a 6Khz filter.
>
> My Racal developped a fault, the OUT OF LOCK does not work. So be warned that these old rigs needs some maintenance.
>
> If you want a better receiver get the Racal 3701, many times Telford electronics has some for sale but the it is almost three times the price of the Racal 1772.
>
> Good luck !
>
> Cheers
>
>
>
> --- In Racal6790GM@yahoogroups.com, "taidllanfair" <john@> wrote:
> >
> > Hi,
> >
> > I've recently joined the group and finding all the postings, files and photos very

interesting.
> >
> > I'm in the UK and looking for an RA1772 or something similar. Thought I'd struck lucky a few days ago when I found an RA1778 for sale but before we agreed on a price the seller mailed me to say the radio had developed a fault... It sounds as if it's temperature related, on switch on the radio works but quickly goes faulty, appearing to 'howl' (seller's description of the fault...). Switching to external oscillator on the back panel then back again and the radio works ok for a bit then starts playing up again... So either he manages to fix it or I might persuade him to sell it 'as is'.
> >
> > Anyone here give me some idea of UK prices for these radios, including non-workers ?
> >
> > The RA1778's widest filter is 3kc/s and as I do a fair bit of listening to hf broadcasts I'd like a wider one - how easy are these filters to source and at what price ?
> >
> > Thanks for your input,
> >
> > John
> >
>

1992. Re: [Racal6790GM] Re: Newbie...

Yahoo group: Racal6790GM
Date: 2012-07-03 13:38:51 UTC
From: Dan Rae
Topic: 1963 Message: 1992

On 7/3/2012 3:33 AM, taidllanfair wrote:
>
>
>
>
> I have since purchased an RA1772. It appears to work well but needs some tidying up, mainly around the PSU area (there's a replacement bridge on the board just hanging on by it's wires...).
Most of them by now need re-wiring round that area since the PVC wires harden from loss of the plasticiser and get brittle, so it may well be a bit more than just "tidying up" that you have to do. PTFE wire is a good way to go. Teflon on this side of the pond. Also check the four or six big electrolytics there.
> It also changes frequency when switching tuning rates. I understand this is an adjustment issue and is quite common.
That is caused by dirty switches / contact bounce, not adjustment. I have seen ones that tune up or down non-stop which is a power supply / ripple issue.

73 - Dan

1993. RA6790 AGC

Yahoo group: Racal6790GM
Date: 2012-08-01 12:22:13 UTC
From: bepi
Topic: 1993 Message: 1993

Hi list,
have a question about 6790 AGC.

ON position , all correct.
OFF position ,
IF Gain fully clockwise , audio level very low, RF displays about 10,
(this is wrong)
IF Gain fully conunterclockwise audio level is silent ,RF displays about
12 , (it seems correct).

Any idea ?.

Thanks in advance de Joe , iv3pvd.

1994. Re: [Racal6790GM] RA6790 AGC

Yahoo group: Racal6790GM
Date: 2012-08-03 15:06:01 UTC
From: BW PITMAN
Topic: 1993 Message: 1994

I have similar query regarding my RA1792.
At normal signal strength RF indications OK up to ranges about 40dBuV with small AF indicated.
At very high signal strength, 120dBuV, agc works well but no AF indication and RF reads about 40 dB uV when agc off, and manual control fully clockwise no indication on RF.
With manual control fully counter clockwise RF rises to indicate 120dBuV,correct level, but no AF indications..

Since I purchased 9 months this has been the characteristic, I have always puzzled over this, overload, saturation ?

All ideas welcome
Bryan

From: bepi <bepi_p@...>
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, 1 August 2012, 13:22
Subject: [Racal6790GM] RA6790 AGC

Hi list,
have a question about 6790 AGC.

ON position , all correct.
OFF position ,
IF Gain fully clockwise , audio level very low, RF displays about 10,
(this is wrong)
IF Gain fully conunterclockwise audio level is silent ,RF displays about
12 , (it seems correct).

Any idea ?.

Thanks in advance de Joe , iv3pvd.

Yahoo! Groups Links

    http://docs.yahoo.com/info/terms/

1996. Racal RA1792 >> VFO Encoder Shaft Diameter

Yahoo group: Racal6790GM
Date: 2012-11-04 14:09:16 UTC
From: Fenu
Topic: 1996 Message: 1996

Dear Users,
Can anyone say me, what are the Diameter from the Encoder and Volume/IF Gain Shafts from the RA1792?

Thank you very much.
73'
Fernando

1997. Re: [Racal6790GM] Racal RA1792 >> VFO Encoder Shaft Diameter

Yahoo group: Racal6790GM
Date: 2012-11-04 15:12:16 UTC
From: casy_ch@tbwil.ch
Topic: 1996 Message: 1997

Hi Fernando

I suppose they are ? 1/4" (? 6.35mm). I wanted to remove the knobs on mine. Eventhough I have taken off their center nut, I could not remove the knobs!!!

73 de Jean-Claude

Am 04.11.2012 15:09, schrieb Fenu:
>
> Dear Users,
> Can anyone say me, what are the Diameter from the Encoder and
> Volume/IF Gain Shafts from the RA1792?
>
> Thank you very much.
> 73'
> Fernando
>
>

1998. Re: Racal RA1792 >> VFO Encoder Shaft Diameter

Yahoo group: Racal6790GM
Date: 2012-11-04 17:14:29 UTC
From: Fenu
Topic: 1996 Message: 1998

Hi Jean-Claude,

Danke!
Thanks!

--- In Racal6790GM@yahoogroups.com, "casy_ch@..." <casy_ch@...> wrote:
>
> Hi Fernando
>
> I suppose they are Ø 1/4" (Ø 6.35mm). I wanted to remove the knobs on
> mine. Eventhough I have taken off their center nut, I could not remove
> the knobs!!!
>
> 73 de Jean-Claude
>
>
> Am 04.11.2012 15:09, schrieb Fenu:
> >
> > Dear Users,
> > Can anyone say me, what are the Diameter from the Encoder and
> > Volume/IF Gain Shafts from the RA1792?
> >
> > Thank you very much.
> > 73'
> > Fernando
> >
> >
>

1999. Re: [Racal6790GM] Re: Racal RA1792 >> VFO Encoder Shaft Diameter

Yahoo group: Racal6790GM
Date: 2012-11-05 16:01:48 UTC
From: BW PITMAN
Topic: 1996 Message: 1999

I believe the knob clamping mechanism may take the form of a collet, this is tube like structure with partly split sides the inside diameter being 1/4 inch. Tightening the nut pulls the split sides onto the shaft. Try undoing the nut a few turns and then gently tap the end of the nut back down to release the the clamping force the collet exerts on the split tube.

Good luck
Bryan

From: Fenu <fenu@...>
To: Racal6790GM@yahoogroups.com
Sent: Sunday, 4 November 2012, 17:14
Subject: [Racal6790GM] Re: Racal RA1792 >> VFO Encoder Shaft Diameter

Hi Jean-Claude, Danke! Thanks! --- In mailto:Racal6790GM%40yahoogroups.com, "casy_ch@..." <casy_ch@...> wrote: > > Hi Fernando > > I suppose they are Ø 1/4" (Ø 6.35mm). I wanted to remove the knobs on > mine. Eventhough I have taken off their center nut, I could not remove > the knobs!!! > > 73 de Jean-Claude > > > Am 04.11.2012 15:09, schrieb Fenu: > > > > Dear Users, > > Can anyone say me, what are the Diameter from the Encoder and > > Volume/IF Gain Shafts from the RA1792? > > > > Thank you very much. > > 73' > > Fernando > > > > > >

2000. Collins mechanical filters installation

Yahoo group: Racal6790GM
Date: 2012-11-09 22:03:33 UTC
From: iw2brb
Topic: 2000 Message: 2000

Hello,
I need your help to be able to install Collins Mechanical filters on my Racal 6790GM.
I intend to install a full complement of six standard filters Racal PN.
07883-1 to 07883-6.
Looking into the service manual I was not able to associate the right input and output capacitor to the relative filter.
Your help will be very apreciated,
Francesco

2001. Re: [Racal6790GM] Collins mechanical filters installation

Yahoo group: Racal6790GM
Date: 2012-11-10 00:05:35 UTC
From: gewingerd@netzero.com
Topic: 2000 Message: 2001
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2002. Re: [Racal6790GM] Collins mechanical filters installation

Yahoo group: Racal6790GM
Date: 2012-11-10 13:04:24 UTC
From: Francesco Clonfero/tin
Topic: 2000 Message: 2002

Many thaks for the very usefull info.
regards,
Francesco IW2BRB

----- Original Message -----
From: gewingerd@...
To: Racal6790GM@yahoogroups.com
Sent: Saturday, November 10, 2012 1:05 AM
Subject: Re: [Racal6790GM] Collins mechanical filters installation

A4C1 270pf 7883-6 A4C7 240pf
A4C2 270pf 7883-5 A4C8 240pf
A4C6 750pf 7883-4 A4C12 750pf
A4C5 360pf 7883-3 A4C11 330pf
A4C4 110pf 7883-2 A4C10 82pf
A4C3 180pf 7883-1 A4C9 150pf

Please note: message attached

From: "iw2brb" <f.clonfero@...>
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Collins mechanical filters installation
Date: Fri, 09 Nov 2012 22:03:33 -0000

Nessun virus nel messaggio.
Controllato da AVG - www.avg.com
Versione: 2013.0.2742 / Database dei virus: 2624/5884 - Data di rilascio: 09/11/2012

2003. Newbe

Yahoo group: Racal6790GM
Date: 2012-11-18 04:21:33 UTC
From: John Simon
Topic: 2003 Message: 2003

I hope to be an RA6790/GM owner shortly. I've walked around one long
enough so I've taken the plunge.
Are there any Op's in VK that I can chat with about this radio?

John de VK2XGJ
Women and cats will do as they please,
men and dogs should relax and get used to the idea!

2004. Re: [Racal6790GM] Newbe

Yahoo group: Racal6790GM
Date: 2012-11-18 04:38:50 UTC
From: noel.lipscombe
Topic: 2003 Message: 2004

Hi John,

I bought one of these receivers a few months ago and will be pleased to talk about my experiences with you.

You can give me a call on 02 9587 4969 or do it through the group.

Noel (VK2ANJ)

-----Original Message-----
From: John Simon
Sent: Sunday, November 18, 2012 3:21 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Newbe

I hope to be an RA6790/GM owner shortly. I've walked around one long enough so I've taken the plunge.
Are there any Op's in VK that I can chat with about this radio?

John de VK2XGJ
Women and cats will do as they please,
men and dogs should relax and get used to the idea!

Yahoo! Groups Links

2005. Suitable case

Yahoo group: Racal6790GM
Date: 2012-11-21 05:30:09 UTC
From: reece_k1
Topic: 2005 Message: 2005

Hi, I have purchased one of these receivers, currently being shipped, I am hoping it will be here before xmas.
This one like many is for a 19" rack, does anyone know of a suitable case? I thought a Schoff CompacPRO would be nice but there doesn't seem to be a useable size.
Will it fit in a 3U case for height?
Many thanks.

2006. RA 1792 FAULT INDICATOR

Yahoo group: Racal6790GM
Date: 2012-11-22 17:01:17 UTC
From: BW PITMAN
Topic: 1907 Message: 2006

I have just stated to use an external frequency reference, the internal Racal 9442 type having a drift problem.
Having selected "External " on S2 at the rear panel, all is working fine, with the exception that the FAULT indicator is permanently displayed
Any ideas please.
By the way the replacement reference is a 9420, found on e-bay, and seller has a few more, unfortunately its twice as long as the original 9442.
Regards
Bryan

2007. 6790 User Manual

Yahoo group: Racal6790GM
Date: 2012-11-27 10:18:50 UTC
From: reece_k1
Topic: 2007 Message: 2007

Hi, I have found many manuals such as the service manual online but can't find a user manual, can anyone assist?
Thanks.

2008. Re: [Racal6790GM] 6790 User Manual

Yahoo group: Racal6790GM
Date: 2012-11-27 13:20:30 UTC
From: Tom B
Topic: 2007 Message: 2008

Are you looking for a manual on the 6790 or 6790/GM?

> Hi, I have found many manuals such as the service manual online but can't
> find a user manual, can anyone assist?
> Thanks.

2009. Finally got one!

Yahoo group: Racal6790GM
Date: 2012-11-28 11:33:38 UTC
From: John Simon
Topic: 2007 Message: 2009

Well I'm finally the proud possessor of an RA6790/GM, got it going after a bit of a false start.
Only problem is the dial lights are U/S.

John de VK2XGJ
Money talks
Chocolate sings!

2010. Re: [Racal6790GM] Finally got one!

Yahoo group: Racal6790GM
Date: 2012-11-28 15:00:25 UTC
From: Dan Rae
Topic: 2007 Message: 2010

On 11/28/2012 3:33 AM, John Simon wrote:
> Well I'm finally the proud possessor of an RA6790/GM, got it going after a
> bit of a false start.
> Only problem is the dial lights are U/S.
>
>
>
>
John, there are people here who can sell you a kit for converting the
incandescent bulb lighting to LED lighting.

I have done several by using the existing PC board and traces and
fitting four strings of seven side firing surface mount high brightness
LEDs; a few cuts on the traces and a couple of wire links are needed.
No machining of the acrylic spacer is needed.

73 - Dan

ac6ao / g3ncr

2011. Re: [Racal6790GM] Finally got one!

Yahoo group: Racal6790GM
Date: 2012-11-28 23:58:53 UTC
From: John Simon
Topic: 2007 Message: 2011

Many thanks for that Dan. I was hoping that would be the case. I don't
want to go re-inventing wheels.
Her first bit test will be tonight when the ZL 508 KHz sig comes up.
Tnx again.

John de VK2XGJ
Money talks
Chocolate sings!

-----Original Message-----
From: Dan Rae
Sent: Thursday, November 29, 2012 2:00 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Finally got one!

On 11/28/2012 3:33 AM, John Simon wrote:
> Well I'm finally the proud possessor of an RA6790/GM, got it going after
> a
> bit of a false start.
> Only problem is the dial lights are U/S.
>
>
>
>
John, there are people here who can sell you a kit for converting the
incandescent bulb lighting to LED lighting.

I have done several by using the existing PC board and traces and
fitting four strings of seven side firing surface mount high brightness
LEDs; a few cuts on the traces and a couple of wire links are needed.
No machining of the acrylic spacer is needed.

73 - Dan

ac6ao / g3ncr

Yahoo! Groups Links

2012. Re: 6790 User Manual

Yahoo group: Racal6790GM
Date: 2012-12-01 04:36:07 UTC
From: reece_k1
Topic: 2007 Message: 2012

--- In Racal6790GM@yahoogroups.com, "Tom B" <tbryan@...> wrote:
>
> Are you looking for a manual on the 6790 or 6790/GM?
>
> > Hi, I have found many manuals such as the service manual online but can't
> > find a user manual, can anyone assist?
> > Thanks.
>
I am looking for the Racal RA6790/GM user manual.
Thanks.

2013. Re: Finally got one!

Yahoo group: Racal6790GM
Date: 2012-12-01 04:47:40 UTC
From: reece_k1
Topic: 2007 Message: 2013

Hi Dan, could you tell me where I can get "seven side firing" LED's?
Thanks,
Reece.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 11/28/2012 3:33 AM, John Simon wrote:
> > Well I'm finally the proud possessor of an RA6790/GM, got it going after a
> > bit of a false start.
> > Only problem is the dial lights are U/S.
> >
> >
> >
> >
> John, there are people here who can sell you a kit for converting the
> incandescent bulb lighting to LED lighting.
>
> I have done several by using the existing PC board and traces and
> fitting four strings of seven side firing surface mount high brightness
> LEDs; a few cuts on the traces and a couple of wire links are needed.
> No machining of the acrylic spacer is needed.
>
> 73 - Dan
>
> ac6ao / g3ncr
>

2014. Re: 6790 User Manual

Yahoo group: Racal6790GM
Date: 2012-12-01 14:24:11 UTC
From: Nigel
Topic: 2007 Message: 2014

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
>
>
> --- In Racal6790GM@yahoogroups.com, "Tom B" <tbryan@> wrote:
> >
> > Are you looking for a manual on the 6790 or 6790/GM?
> >
> > > Hi, I have found many manuals such as the service manual online but can't
> > > find a user manual, can anyone assist?
> > > Thanks.
> >
> I am looking for the Racal RA6790/GM user manual.
> Thanks.
>

I don't really understand this request.

The 6790/GM technical manual that's downloadable from BAMA and no doubt elsewhere contains comprehensive sections on installation and operation as well as the service information.

What else do you need?

Regards

Nigel
GM8PZR

2015. Re: 6790 User Manual

Yahoo group: Racal6790GM
Date: 2012-12-02 10:15:19 UTC
From: reece_k1
Topic: 2007 Message: 2015

I just assumed that the tech manual was for servicing/repairs only, not a guide on how to use it, I will take a closer look!

--- In Racal6790GM@yahoogroups.com, "Nigel" <poldhu1901@...> wrote:
>
>
>
> --- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@> wrote:
> >
> >
> >
> > --- In Racal6790GM@yahoogroups.com, "Tom B" <tbryan@> wrote:
> > >
> > > Are you looking for a manual on the 6790 or 6790/GM?
> > >
> > > > Hi, I have found many manuals such as the service manual online but can't
> > > > find a user manual, can anyone assist?
> > > > Thanks.
> > >
> > I am looking for the Racal RA6790/GM user manual.
> > Thanks.
> >
> --------------
> I don't really understand this request.
>
> The 6790/GM technical manual that's downloadable from BAMA and no doubt elsewhere contains comprehensive sections on installation and operation as well as the service information.
>
> What else do you need?
>
> Regards
>
> Nigel
> GM8PZR
>

2016. RACAL RA1792 lcd

Yahoo group: Racal6790GM
Date: 2012-12-03 07:16:48 UTC
From: ggarciam_01
Topic: 2016 Message: 2016

Could anybody tell me where can I obtain a the RA1792 display.
In the web the only information is in Racal RA1792 www.1792lcd.com/
I asked many times but they never answered me.
They have a good price but there isn´t a link bo buy it.

Thank you

2017. (no subject)

Yahoo group: Racal6790GM
Date: 2012-12-03 13:57:35 UTC
From: GERMAN GUTIERREZ
Topic: 2017 Message: 2017

for start sending information

2018. Re: [Racal6790GM] RACAL RA1792 lcd

Yahoo group: Racal6790GM
Date: 2012-12-03 18:42:57 UTC
From: BW PITMAN
Topic: 2016 Message: 2018

I believe a address to try is info@.... I had a reply from this about a year ago.
Good luck, please tell be if its still OK.

From: ggarciam_01 <ggarciam_01@...>
To: Racal6790GM@yahoogroups.com
Sent: Monday, 3 December 2012, 7:16
Subject: [Racal6790GM] RACAL RA1792 lcd

Could anybody tell me where can I obtain a the RA1792 display. In the web the only information is in Racal RA1792 www.1792lcd.com/ I asked many times but they never answered me. They have a good price but there isn´t a link bo buy it. Thank you

2019. Re: [Racal6790GM] RACAL RA1792 lcd

Yahoo group: Racal6790GM
Date: 2012-12-04 06:51:56 UTC
From: GERMAN GUTIERREZ
Topic: 2016 Message: 2019

OK. Thank you for your information

--- El lun, 3/12/12, BW PITMAN <shipwrights.cottered@...> escribió:

De: BW PITMAN <shipwrights.cottered@...>
Asunto: Re: [Racal6790GM] RACAL RA1792 lcd
Para: "Racal6790GM@yahoogroups.com" <Racal6790GM@yahoogroups.com>
Fecha: lunes, 3 de diciembre, 2012 19:42

I believe a address to try is info@.... I had a reply from this about a year ago.
Good luck, please tell be if its still OK.

From: ggarciam_01 <ggarciam_01@...>
To: Racal6790GM@yahoogroups.com
Sent: Monday, 3 December 2012, 7:16
Subject: [Racal6790GM] RACAL RA1792 lcd

Could anybody tell me where can I obtain a the RA1792 display. In the web the only information is in Racal RA1792 www.1792lcd.com/ I asked many times but they never answered me. They have a good price but there isn´t a link bo buy it. Thank you

2020. Racal 1795

Yahoo group: Racal6790GM
Date: 2012-12-03 19:47:34 UTC
From: Marco IK1ODO -2
Topic: 2016 Message: 2020

A nice Racal 1795 surveillance receiver for sale.
Passes BITE, tested in specs, op/svc manual included (pdf).
Has 1000 MHz option, plus opt. B1/JD/S3/D (half octave filters, 2 MHz wideband filter, internal hi stab standard, IEEE-488 interface)
EUR 1800 + shipment. Will ship to EU, US/Canada, JA.

Located in Italy. The price includes professional packing (foam in place, double cardboard). Pictures on request.

73 - Marco IK1ODO / AI4YF

2021. Need RA6790/GM IF Filter

Yahoo group: Racal6790GM
Date: 2012-12-08 15:27:39 UTC
From: chuckiepoh
Topic: 2021 Message: 2021

Greetings,
Looking for a 4 or 5khz if filter for my 6790. The 6.8khz filter shows as 8.3khz after running BITE. It's just too wide for some of my listening. Maybe there are some presently manufactured filters that I can substitute by making up a holder that will plug into the filter board. Any suggestions?

Chuck...wa2onk

2022. Re: [Racal6790GM] Need RA6790/GM IF Filter

Yahoo group: Racal6790GM
Date: 2012-12-08 16:14:08 UTC
From: Dan Rae
Topic: 2021 Message: 2022

On 12/8/2012 7:27 AM, chuckiepoh wrote:
> Greetings,
> Looking for a 4 or 5khz if filter for my 6790. The 6.8khz filter shows as 8.3khz after running BITE. It's just too wide for some of my listening. Maybe there are some presently manufactured filters that I can substitute by making up a holder that will plug into the filter board. Any suggestions?
>
> Chuck...wa2onk
>

Chuck, BITE always reports widths on the wide side from reality, and anyway of course "width" depends on how many dB down you are using as a criterion.

Todd Roberts, who is a list member, made some really excellent little plug in boards that carried a Collins 5.7 kHz wide mechanical filter with matching circuitry that was great for AM. I don't know if he has any left. There may be other aftermarket ones.

There are no nominal filters supplied by Racal that do what you want, however some of the filters marked "3kHz" are actually nearer 4 kHz in width and will sort of work for narrow AM. I think these are the ones designed for HF / DF use and have rather an odd response. I don't have one currently so can't quote a part number.

73 - Dan

2023. Re: [Racal6790GM] Need RA6790/GM IF Filter

Yahoo group: Racal6790GM
Date: 2012-12-08 16:26:33 UTC
From: gewingerd@netzero.com
Topic: 2021 Message: 2023
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2024. Re: [Racal6790GM] Need RA6790/GM IF Filter

Yahoo group: Racal6790GM
Date: 2012-12-08 19:08:37 UTC
From: Percy Walton
Topic: 2021 Message: 2024

Another alternative is to feed the IF output into a SoftRock board and use one of the free software programs out there for demod. They give you a lot of choices. I have one on my R-390A (SRv6.2 Lite). Here is a place to start http://softrocksdr.wikispaces.com/

From: chuckiepoh <wa2onk@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, December 8, 2012 10:27 AM
Subject: [Racal6790GM] Need RA6790/GM IF Filter

Greetings,
Looking for a 4 or 5khz if filter for my 6790. The 6.8khz filter shows as 8.3khz after running BITE. It's just too wide for some of my listening. Maybe there are some presently manufactured filters that I can substitute by making up a holder that will plug into the filter board. Any suggestions?

Chuck...wa2onk

2025. RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2012-12-31 05:35:13 UTC
From: reece_k1
Topic: 2025 Message: 2025

Hi, I haven't had this radio long, am doing some work on it, it has an interface board but not sure if it is any good to run the available radio control program,
Card Markings:
A08391
SN 8743
Rev-B4 or 84

Picture:
http://s66.beta.photobucket.com/user/Reecehk/media/RacalA08391_zpsf4575a82.jpg.html

Thanks for any advise.

2026. Re: [Racal6790GM] RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2012-12-31 05:50:40 UTC
From: gewingerd@netzero.com
Topic: 2025 Message: 2026
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2027. Re: [Racal6790GM] RA6790/GM Interface board. [1 Attachment]

Yahoo group: Racal6790GM
Date: 2012-12-31 06:35:21 UTC
From: casy_ch@tbwil.ch
Topic: 2027 Message: 2027

Am 31.12.2012 07:26, schrieb hb3ydh@...:
> Hi Gary
>
> The RA--6793 still works fine.
>
> Are these commands also valid for the RA-6793 ?
>
> I wish you all the best for the new coming year.
>
> Vy 73 de Jean-Claude, HB3YDH
>
>
> Am 31.12.2012 06:50, schrieb gewingerd@...:
>> [Attachment(s) <#TopText> from gewingerd@... included below]
>>
>> The card is a RS232 interface for the receiver. Try the attached info.
>>
>> Thanks,
>> Gary
>>
>> Please note: message attached
>>
>> From: "reece_k1" <reece_k1@... <mailto:reece_k1%40yahoo.com.au>>
>> To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
>> Subject: [Racal6790GM] RA6790/GM Interface board.
>> Date: Mon, 31 Dec 2012 05:35:13 -0000
>>
>>
>>
>> Attachment(s) from gewingerd@...
>>
>> 1 of 1 File(s)
>>
>> These are the commands AND INFO for the RA6790.doc
>> <http://xa.yimg.com/kq/groups/8971413/207208343/name/These%20are%20the%20commands%20AND%20INFO%20for%20the%20RA6790%2Edoc>
>>
>>
>>
>>
>>
>>
>>
>

2028. Re: RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2012-12-31 12:02:46 UTC
From: reece_k1
Topic: 2025 Message: 2028

Hi Gary, Thanks for the doc file.
I found this note attached to the 'RA6790 Virtual Receiver software by W6GER':

Quote "For the software to operate properly in all modes the Receiver EPROM firmware must be of the version that returns the AGC level readback. Without AGC level readback a number of features utilizing the AGC level readback will not work properly.

Firmware part number A08449 DOES NOT provide AGC level readback.
Firmware type RAGM01 p/n A09666 DOES provide AGC level readback"

I am not sure if my interface card will work, I guess I can just try!!
Cheers,
Reece.

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> The card is a RS232 interface for the receiver. Try the attached info.
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: "reece_k1" <reece_k1@...>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] RA6790/GM Interface board.
> Date: Mon, 31 Dec 2012 05:35:13 -0000
>
>
>
> Hi, I haven't had this radio long, am doing some work on it, it has an interface board but not sure if it is any good to run the available radio control program,
> Card Markings:
> A08391
> SN 8743
> Rev-B4 or 84
>
> Picture:
> http://s66.beta.photobucket.com/user/Reecehk/media/RacalAO8391_zpsf4575a82.jpg.html
>
> Thanks for any advise.
>

2029. Re: [Racal6790GM] RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2012-12-31 16:26:56 UTC
From: gewingerd@netzero.com
Topic: 2025 Message: 2029
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2030. RA3701 display

Yahoo group: Racal6790GM
Date: 2012-12-31 18:48:22 UTC
From: vk5abc
Topic: 2030 Message: 2030

Hello All

Has anyone here ever replaced a lcd display on the RA3701, I need a source if there is one? I am not talking about the back-lighting.

73's Lee.

2031. Re: RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-01 09:59:32 UTC
From: reece_k1
Topic: 2025 Message: 2031

I have connected the radio to the PC but the software is asking for 'Receiver ID', I assume this has something to do with the Pins K to N and P to T, but what do I do with them? Should I just read the binary state of the byte (using a logic probe) and use this? I'm probably way off the mark here!!!
Advice welcome.

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
> Hi Gary, Thanks for the doc file.
> I found this note attached to the 'RA6790 Virtual Receiver software by W6GER':
>
> Quote "For the software to operate properly in all modes the Receiver EPROM firmware must be of the version that returns the AGC level readback. Without AGC level readback a number of features utilizing the AGC level readback will not work properly.
>
> Firmware part number A08449 DOES NOT provide AGC level readback.
> Firmware type RAGM01 p/n A09666 DOES provide AGC level readback"
>
> I am not sure if my interface card will work, I guess I can just try!!
> Cheers,
> Reece.
>
>
>
> --- In Racal6790GM@yahoogroups.com, "gewingerd@" <gewingerd@> wrote:
> >
> > The card is a RS232 interface for the receiver. Try the attached info.
> >
> > Thanks,
> > Gary
> >
> > Please note: message attached
> >
> > From: "reece_k1" <reece_k1@>
> > To: Racal6790GM@yahoogroups.com
> > Subject: [Racal6790GM] RA6790/GM Interface board.
> > Date: Mon, 31 Dec 2012 05:35:13 -0000
> >
> >
> >
> > Hi, I haven't had this radio long, am doing some work on it, it has an interface board but not sure if it is any good to run the available radio control program,
> > Card Markings:
> > A08391
> > SN 8743

> > Rev-B4 or 84
> >
> > Picture:
> > http://s66.beta.photobucket.com/user/Reecehk/media/RacalAO8391_zpsf4575a82.jpg.html
> >
> > Thanks for any advise.
> >
>

2032. Re: [Racal6790GM] Re: RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-01 14:31:21 UTC
From: gewingerd@netzero.com
Topic: 2025 Message: 2032
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2033. Re: [Racal6790GM] Re: RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-01 14:50:40 UTC
From: Dan Rae
Topic: 2025 Message: 2033

On 1/1/2013 1:59 AM, reece_k1 wrote:
> I have connected the radio to the PC but the software is asking for 'Receiver ID', I assume this has something to do with the Pins K to N and P to T, but what do I do with them?
Reece, you need to selectively ground certain pins according to the information in the manual, and presumably in Gary's handout. It will be a binary number. The data type and baud rate will be selected in a similar way. If you have bought a commercial cable or if one came with your radio it may well be wired already.

73 - Dan

2034. Re: RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-01 23:10:07 UTC
From: reece_k1
Topic: 2025 Message: 2034

Hi Dan, I found conflicting pin connections but worked out that the Receiver ID is standard 77 hex or connecting pin 'S' to ground is 73 hex, have passed that point but now get a Port Error.
I tried sending the email below to W6GER but it bounces back:

I recently purchased a RACAL RA6790/GM and is a basic machine with no mods.
It does have the A6A1 interface card (A08391), and I have set up the links as per your instructions as well as the DB9 connections.
Also I have checked the connector pins logic levels to get the hex value for the ID, baud rate and parity and set the PC port and the software to match but keep getting a port error. Have tried com 3 & 4 but both the same results, I also tried swapping pins 2 & 3 around.

Pictures:
http://s66.beta.photobucket.com/user/Reecehk/media/RA6790Error-1_zps7adcaaad.jpg.html

http://s66.beta.photobucket.com/user/Reecehk/media/RA6790Error-2_zps0d8f9992.jpg.html
---

I am stuck at this point, not sure what to do now.
Thanks.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 1/1/2013 1:59 AM, reece_k1 wrote:
> > I have connected the radio to the PC but the software is asking for 'Receiver ID', I assume this has something to do with the Pins K to N and P to T, but what do I do with them?
> Reece, you need to selectively ground certain pins according to the
> information in the manual, and presumably in Gary's handout. It will be
> a binary number. The data type and baud rate will be selected in a
> similar way. If you have bought a commercial cable or if one came with
> your radio it may well be wired already.
>
> 73 - Dan
>

2035. Re: [Racal6790GM] Re: RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-01 23:38:31 UTC
From: Dan Rae
Topic: 2025 Message: 2035

On 1/1/2013 3:10 PM, reece_k1 wrote:
> Hi Dan, I found conflicting pin connections but worked out that the Receiver ID is standard 77 hex or connecting pin 'S' to ground is 73 hex, have passed that point but now get a Port Error.
> I tried sending the email below to W6GER but it bounces back:
> ----------
>
Reece, I'm no expert on using the remote card, since I see no real practical use for it here except perhaps to add lots of memories to the GM. But it could be that the USB to serial device you seem to have is giving problems, I have heard that this can happen. Perhaps if you try using a real 232 serial port that might help?

I never had much luck with that program, since I couldn't get it to work properly with CW mode...

73 - Dan

2036. Re: RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-02 00:58:38 UTC
From: reece_k1
Topic: 2025 Message: 2036

I will give it a go and see what happens, unfortunately most computers nowadays don't have com ports, my old PC does have one that is currently used, I will make a serial cable and set up the port and give it a go!
Cheers.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 1/1/2013 3:10 PM, reece_k1 wrote:
> > Hi Dan, I found conflicting pin connections but worked out that the Receiver ID is standard 77 hex or connecting pin 'S' to ground is 73 hex, have passed that point but now get a Port Error.
> > I tried sending the email below to W6GER but it bounces back:
> > ----------
> >
> Reece, I'm no expert on using the remote card, since I see no real
> practical use for it here except perhaps to add lots of memories to the
> GM. But it could be that the USB to serial device you seem to have is
> giving problems, I have heard that this can happen. Perhaps if you try
> using a real 232 serial port that might help?
>
> I never had much luck with that program, since I couldn't get it to work
> properly with CW mode...
>
> 73 - Dan
>

2037. Re: RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-01 23:17:45 UTC
From: graham787
Topic: 2025 Message: 2037

I used to use that software , Im sure there is a note somewhere to ground one or two pins , only use I think 3 pins in the plug as I used a 2 core screened cable to link up with ? could of used a stereo jack and not bothered with getting the matching plug

That sets the rx-id , one mistake was the agc was dumped at every data up-date , sends the wrong command code ,,one bit set wrongly.

G.

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
> Hi Dan, I found conflicting pin connections but worked out that the Receiver ID is standard 77 hex or connecting pin 'S' to ground is 73 hex, have passed that point but now get a Port Error.
> I tried sending the email below to W6GER but it bounces back:
> ----------
> I recently purchased a RACAL RA6790/GM and is a basic machine with no mods.
> It does have the A6A1 interface card (A08391), and I have set up the links as per your instructions as well as the DB9 connections.
> Also I have checked the connector pins logic levels to get the hex value for the ID, baud rate and parity and set the PC port and the software to match but keep getting a port error. Have tried com 3 & 4 but both the same results, I also tried swapping pins 2 & 3 around.
>
> Pictures:
> http://s66.beta.photobucket.com/user/Reecehk/media/RA6790Error-1_zps7adcaaad.jpg.html
>
> http://s66.beta.photobucket.com/user/Reecehk/media/RA6790Error-2_zps0d8f9992.jpg.html
> ----------
>
> I am stuck at this point, not sure what to do now.
> Thanks.
>
>
>
> --- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@> wrote:
> >
> > On 1/1/2013 1:59 AM, reece_k1 wrote:
> > > I have connected the radio to the PC but the software is asking for 'Receiver ID', I assume this has something to do with the Pins K to N and P to T, but what do I do with them?
> > Reece, you need to selectively ground certain pins according to the
> > information in the manual, and presumably in Gary's handout. It will be
> > a binary number. The data type and baud rate will be selected in a
> > similar way. If you have bought a commercial cable or if one came with
> > your radio it may well be wired already.

> >
> > 73 - Dan
> >
>

2038. Re: RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-02 10:37:17 UTC
From: reece_k1
Topic: 2025 Message: 2038

Thanks Graham, noted!

--- In Racal6790GM@yahoogroups.com, "graham787" <g0nbd@...> wrote:
>
> I used to use that software , Im sure there is a note somewhere to ground one or two pins , only use I think 3 pins in the plug as I used a 2 core screened cable to link up with ? could of used a stereo jack and not bothered with getting the matching plug
>
> That sets the rx-id , one mistake was the agc was dumped at every data up-date , sends the wrong command code ,,one bit set wrongly.
>
> G.
>
> --- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@> wrote:
> >
> > Hi Dan, I found conflicting pin connections but worked out that the Receiver ID is standard 77 hex or connecting pin 'S' to ground is 73 hex, have passed that point but now get a Port Error.
> > I tried sending the email below to W6GER but it bounces back:
> > ----------
> > I recently purchased a RACAL RA6790/GM and is a basic machine with no mods.
> > It does have the A6A1 interface card (A08391), and I have set up the links as per your instructions as well as the DB9 connections.
> > Also I have checked the connector pins logic levels to get the hex value for the ID, baud rate and parity and set the PC port and the software to match but keep getting a port error. Have tried com 3 & 4 but both the same results, I also tried swapping pins 2 & 3 around.
> >
> > Pictures:
> > http://s66.beta.photobucket.com/user/Reecehk/media/RA6790Error-1_zps7adcaaad.jpg.html
> >
> > http://s66.beta.photobucket.com/user/Reecehk/media/RA6790Error-2_zps0d8f9992.jpg.html
> > ----------
> >
> > I am stuck at this point, not sure what to do now.
> > Thanks.
> >
> >
> >
> > --- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@> wrote:
> > >
> > > On 1/1/2013 1:59 AM, reece_k1 wrote:
> > > > I have connected the radio to the PC but the software is asking for 'Receiver ID', I assume this has something to do with the Pins K to N and P to T, but what do I do with them?

> > > Reece, you need to selectively ground certain pins according to the
> > > information in the manual, and presumably in Gary's handout. It will be
> > > a binary number. The data type and baud rate will be selected in a
> > > similar way. If you have bought a commercial cable or if one came with
> > > your radio it may well be wired already.
> > >
> > > 73 - Dan
> > >
> >
>

2039. Re: RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-03 05:35:33 UTC
From: reece_k1
Topic: 2025 Message: 2039

I have made a cable and connected to the PC's com 2 and set that up:
http://s66.beta.photobucket.com/user/Reecehk/media/RA6790Error-3_zpse82ebf82.jpg.html
The program starts and even though both are in remote mode I can push any button on the program but the radio fails to respond!!
Again I have swapped pins 2 and 3 around but no go!!
These are the hardware mods and settings:

A6A1 board:
LK-1 Install
LK-2 Out
LK-3 Install
LK-4 Install
LK5 Install
LK6 Out

A6A2 board:
LK-1 Out

Connector Pins:

B DB9 Pin 2
C DB9 Pin 3
F DB9 Pin 5

J & H linked

N, S, T grounded (as used for DB9 Pin 5

Receiver ID 73 hex as follows:
K 1 (high)
L 1 (high)
M 1 (high)
N 0 (Gnd)

P 1 (high)
R 1 (high)
S 0 (Gnd)
T 0 (Gnd)

No Parity as follows:
U 1 (high)
V 1 (high)

Baud rate 19.2Khz as follows
W 1 (high)
X 1 (high)
Y 1 (high)

Z 1 (high)

Anyone have any idea's?

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 1/1/2013 3:10 PM, reece_k1 wrote:
> > Hi Dan, I found conflicting pin connections but worked out that the Receiver ID is standard 77 hex or connecting pin 'S' to ground is 73 hex, have passed that point but now get a Port Error.
> > I tried sending the email below to W6GER but it bounces back:
> > ----------
> >
> Reece, I'm no expert on using the remote card, since I see no real
> practical use for it here except perhaps to add lots of memories to the
> GM. But it could be that the USB to serial device you seem to have is
> giving problems, I have heard that this can happen. Perhaps if you try
> using a real 232 serial port that might help?
>
> I never had much luck with that program, since I couldn't get it to work
> properly with CW mode...
>
> 73 - Dan
>

2040. Re: RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-03 06:58:57 UTC
From: reece_k1
Topic: 2025 Message: 2040

I triple checked everything and then discovered that the Receiver ID was actually 37 not 73, I should have noted the 'LSD/MSD'.
The program now half work, why am I not surprised!!!
I can select Local/Remote from the program, this works but the sound goes dead, can adjust frequency with dial or direct entry ok but functions such as mode (AM, CW etc) don't work.
Most curious!!

--- In Racal6790GM@yahoogroups.com, "reece_k1" wrote:
>
>
> I have made a cable and connected to the PC's com 2 and set that up:
> http://s66.beta.photobucket.com/user/Reecehk/media/RA6790Error-3_zpse82ebf82.jpg.html
> The program starts and even though both are in remote mode I can push any button on the program but the radio fails to respond!!
> Again I have swapped pins 2 and 3 around but no go!!
> These are the hardware mods and settings:
>
> A6A1 board:
> LK-1 Install
> LK-2 Out
> LK-3 Install
> LK-4 Install
> LK5 Install
> LK6 Out
>
> A6A2 board:
> LK-1 Out
>
> Connector Pins:
>
> B DB9 Pin 2
> C DB9 Pin 3
> F DB9 Pin 5
>
> J & H linked
>
> N, S, T grounded (as used for DB9 Pin 5
>
> Receiver ID 73 hex as follows:
> K 1 (high)
> L 1 (high)
> M 1 (high)
> N 0 (Gnd)
>
> P 1 (high)

> R 1 (high)
> S 0 (Gnd)
> T 0 (Gnd)
>
> No Parity as follows:
> U 1 (high)
> V 1 (high)
>
> Baud rate 19.2Khz as follows
> W 1 (high)
> X 1 (high)
> Y 1 (high)
> Z 1 (high)
>
> Anyone have any idea's?
>
> --- In Racal6790GM@yahoogroups.com, Dan Rae wrote:
> >
> > On 1/1/2013 3:10 PM, reece_k1 wrote:
> > > Hi Dan, I found conflicting pin connections but worked out that the Receiver ID is standard 77 hex or connecting pin 'S' to ground is 73 hex, have passed that point but now get a Port Error.
> > > I tried sending the email below to W6GER but it bounces back:
> > > ----------
> > >
> > Reece, I'm no expert on using the remote card, since I see no real
> > practical use for it here except perhaps to add lots of memories to the
> > GM. But it could be that the USB to serial device you seem to have is
> > giving problems, I have heard that this can happen. Perhaps if you try
> > using a real 232 serial port that might help?
> >
> > I never had much luck with that program, since I couldn't get it to work
> > properly with CW mode...
> >
> > 73 - Dan
> >
>

2041. Spare CPU and Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-03 15:21:41 UTC
From: rod hart
Topic: 2041 Message: 2041

I just upgraded Recv. to the Z80 boards. Will swap original boards for ISB or filters.

Rod Hart, wa3mez
rod.hart@...

2042. Re: RA6790/GM Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-04 07:24:31 UTC
From: reece_k1
Topic: 2025 Message: 2042

Fixed, it was a plated through hole on one of the links, data was going from the PC to the radio but not the radio to the PC.
All functions seem to be going ok, I just have a weird problem with the speaker, when the speaker is connected the headphones cut out, this is reversed to what it should be. Is this a design flaw?
Thanks all for your help.
Cheers.

--- In Racal6790GM@yahoogroups.com, "reece_k1" wrote:
>
> I triple checked everything and then discovered that the Receiver ID was actually 37 not 73, I should have noted the 'LSD/MSD'.
> The program now half work, why am I not surprised!!!
> I can select Local/Remote from the program, this works but the sound goes dead, can adjust frequency with dial or direct entry ok but functions such as mode (AM, CW etc) don't work.
> Most curious!!
>
>
> --- In Racal6790GM@yahoogroups.com, "reece_k1" wrote:
> >
> >
> > I have made a cable and connected to the PC's com 2 and set that up:
> > http://s66.beta.photobucket.com/user/Reecehk/media/RA6790Error-3_zpse82ebf82.jpg.html
> > The program starts and even though both are in remote mode I can push any button on the program but the radio fails to respond!!
> > Again I have swapped pins 2 and 3 around but no go!!
> > These are the hardware mods and settings:
> >
> > A6A1 board:
> > LK-1 Install
> > LK-2 Out
> > LK-3 Install
> > LK-4 Install
> > LK5 Install
> > LK6 Out
> >
> > A6A2 board:
> > LK-1 Out
> >
> > Connector Pins:
> >
> > B DB9 Pin 2
> > C DB9 Pin 3
> > F DB9 Pin 5

> >
> > J & H linked
> >
> > N, S, T grounded (as used for DB9 Pin 5
> >
> > Receiver ID 73 hex as follows:
> > K 1 (high)
> > L 1 (high)
> > M 1 (high)
> > N 0 (Gnd)
> >
> > P 1 (high)
> > R 1 (high)
> > S 0 (Gnd)
> > T 0 (Gnd)
> >
> > No Parity as follows:
> > U 1 (high)
> > V 1 (high)
> >
> > Baud rate 19.2Khz as follows
> > W 1 (high)
> > X 1 (high)
> > Y 1 (high)
> > Z 1 (high)
> >
> > Anyone have any idea's?
> >
> > --- In Racal6790GM@yahoogroups.com, Dan Rae wrote:
> > >
> > > On 1/1/2013 3:10 PM, reece_k1 wrote:
> > > > Hi Dan, I found conflicting pin connections but worked out that the Receiver ID is standard 77 hex or connecting pin 'S' to ground is 73 hex, have passed that point but now get a Port Error.
> > > > I tried sending the email below to W6GER but it bounces back:
> > > > ----------
> > > >
> > > Reece, I'm no expert on using the remote card, since I see no real
> > > practical use for it here except perhaps to add lots of memories to the
> > > GM. But it could be that the USB to serial device you seem to have is
> > > giving problems, I have heard that this can happen. Perhaps if you try
> > > using a real 232 serial port that might help?
> > >
> > > I never had much luck with that program, since I couldn't get it to work
> > > properly with CW mode...
> > >
> > > 73 - Dan
> > >
> >
>

2043. Re: Spare CPU and Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-04 07:31:49 UTC
From: reece_k1
Topic: 2041 Message: 2043

Hi Rod, what do you think of the mod? Is there any advantage having a Z80 CPU board?
I was wondering what the cost would be, they don't advertise it, would you mind giving me a rough idea?
Thanks.

--- In Racal6790GM@yahoogroups.com, rod hart wrote:
>
> I just upgraded Recv. to the Z80 boards. Will swap original boards for
> ISB or filters.
>
> Rod Hart, wa3mez
> rod.hart@...
>

2044. Speaker / headphones

Yahoo group: Racal6790GM
Date: 2013-01-04 14:28:17 UTC
From: Dan Rae
Topic: 2025 Message: 2044

On 1/3/2013 11:24 PM, reece_k1 wrote:
> I just have a weird problem with the speaker, when the speaker is connected the headphones cut out, this is reversed to what it should be. Is this a design flaw?
>
Reece, the front panel headphone socket and the rear panel speaker connections on the 25 way Cannon are completely separate and neither will depend on the other being connected or not. I've no idea what you are describing!

73 - Dan

2045. Re: [Racal6790GM] Speaker / headphones

Yahoo group: Racal6790GM
Date: 2013-01-04 17:14:05 UTC
From: gewingerd@netzero.com
Topic: 2025 Message: 2045
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2046. Re: Speaker / headphones

Yahoo group: Racal6790GM
Date: 2013-01-04 22:34:06 UTC
From: reece_k1
Topic: 2025 Message: 2046

Yes it is strange, when I have a speaker plugged in to the DB25 (pin 18) the headphones don't work, unless I unplug the speaker from the DB25!!
I gather this is another fault! a weird one!!

--- In Racal6790GM@yahoogroups.com, Dan Rae wrote:
>
> On 1/3/2013 11:24 PM, reece_k1 wrote:
> > I just have a weird problem with the speaker, when the speaker is connected the headphones cut out, this is reversed to what it should be. Is this a design flaw?
> >
> Reece, the front panel headphone socket and the rear panel speaker
> connections on the 25 way Cannon are completely separate and neither
> will depend on the other being connected or not. I've no idea what you
> are describing!
>
> 73 - Dan
>

2047. Re: Speaker / headphones

Yahoo group: Racal6790GM
Date: 2013-01-04 22:38:07 UTC
From: reece_k1
Topic: 2025 Message: 2047

The speaker is a 6" oval 8ohm, I will have to check the circuit, I suspect something wrong with the Audio crosspoint switch!!
Out with the logic probe again!!
Thanks.

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." wrote:
>
> Reece,
>
> The external speaker should be a 4 to 8 ohm speaker, the head phone should be 600 ohm. They are 2 separate circuits however they come from the same switching circuit.
>
> thanks,
> Gary
>
>
> Please note: message attached
>
> From: Dan Rae
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Speaker / headphones
> Date: Fri, 04 Jan 2013 06:28:17 -0800
>
>
>
> On 1/3/2013 11:24 PM, reece_k1 wrote:
> > I just have a weird problem with the speaker, when the speaker is connected the headphones cut out, this is reversed to what it should be. Is this a design flaw?
> >
> Reece, the front panel headphone socket and the rear panel speaker
> connections on the 25 way Cannon are completely separate and neither
> will depend on the other being connected or not. I've no idea what you
> are describing!
>
> 73 - Dan
>

2048. Re: Spare CPU and Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-04 22:01:33 UTC
From: rod hart
Topic: 2041 Message: 2048

The Z-80 Interface board cost $125 and the CPU board cost $225. I probably could have gotten along without them but I remember what I had to do to get the receiver functioning when I got it. Had to replace a bunch of caps and the battery on the original CPU board. I have always feel uneasy about the possibility of others failing. The boards are well designed and constructed and are well worth the asking price. Phil Simmons, the person I dealt with was excellent to deal with. I understand he sells the boards as kits. 30 years ago I would have gone for the kits but the old eye sight and hands aren't whats needed for construction these days. This receiver is a real jewel.

I have a mint R-390 so my collection is complete.

Rod Hart
wa3mez

2049. Re: Spare CPU and Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-05 01:26:01 UTC
From: reece_k1
Topic: 2041 Message: 2049

Hi Rod, the prices are very good, I may inquire about the kit prices.
Many thanks.

--- In Racal6790GM@yahoogroups.com, rod hart wrote:
>
> The Z-80 Interface board cost $125 and the CPU board cost $225. I
> probably could have gotten along without them but I remember what I had
> to do to get the receiver functioning when I got it. Had to replace a
> bunch of caps and the battery on the original CPU board. I have always
> feel uneasy about the possibility of others failing. The boards are well
> designed and constructed and are well worth the asking price. Phil
> Simmons, the person I dealt with was excellent to deal with. I
> understand he sells the boards as kits. 30 years ago I would have gone
> for the kits but the old eye sight and hands aren't whats needed for
> construction these days. This receiver is a real jewel.
>
> I have a mint R-390 so my collection is complete.
>
> Rod Hart
> wa3mez
>

2050. Re: [Racal6790GM] Re: Spare CPU and Interface board.

Yahoo group: Racal6790GM
Date: 2013-01-05 03:07:25 UTC
From: mparkinson1
Topic: 2041 Message: 2050

Looking for new boards and maybe kits contact this guy.I have one the work is better than factory racal boards what a great guy to deal with also I recommend him and the work
.
a6a2@...

Matt Parkinson Military Equipment & R 390A Depot Center

2051. RA6790/GM IF Filters

Yahoo group: Racal6790GM
Date: 2013-01-08 10:19:21 UTC
From: reece_k1
Topic: 2051 Message: 2051

IF Filters

Whilst overhauling this RA6790/GM radio I thought I'd replace the foam strips holding the filters in place, the old black foam has deteriorated and stuck to the filters.
After cleaning off I had a look at the filter bandwidth and numbering, these seem to be installed incorrectly and might be the reason the sound is poor.
I did a search and found one with all 7 filters installed:

FL-1 - ISB
FL-2 - ISB
FL-3 #1 400Hz
FL-4 #2 1.2Khz
FL-5 #3 3.24Khz
FL-6 #4 6.8Khz
FL-7 #5 16Khz

Mine does not have the ISB installed:

FL-1 #3 3.24Khz
FL-2 #1 400Hz
FL-3 #2 1.2Khz
FL-4 #4 6.8Khz
FL-5 #5 16Khz
FL-6 -
FL-7 -

This doesn't look right, should filter numbers #1 to #3 be corrected and all 5 be installed in Filter slots FL-1 to 5?
or
should filter numbers #1 to #3 be corrected and all 5 be installed in Filter slots FL-3 to 7?

2052. Re: [Racal6790GM] RA6790/GM IF Filters

Yahoo group: Racal6790GM
Date: 2013-01-08 17:24:55 UTC
From: gewingerd@netzero.com
Topic: 2051 Message: 2052
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2053. Re: RA6790/GM IF Filters

Yahoo group: Racal6790GM
Date: 2013-01-08 23:32:55 UTC
From: reece_k1
Topic: 2051 Message: 2053

Hi Gary, I'm not sure what you mean by "if no ISB filters are installed the first filter in slot 1 becomes the
the ISB filters", I don't have the ISB card option installed, I assume you are saying that the first filter slot is the main LSB/USB filter? (I'm new to this type of radio)
I notice that selecting the 16Khz filter displays as 20Khz, is this correct?
Reece.

BTW, I have never done the bite test, I've been afraid it might show a fault!!! (paranoid)

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." wrote:
>
> IF Filters,
>
> When all 7 filters are installed the ISB filters must go into the first 2 slots, if no ISB filters are installed the first filter in slot 1 becomes the the ISB filters hence the 3.24 is now the bandwidth for USB/LSB operation. Run the BITE and see if the filters are assigned correctly with LOCK AM buttons at the same time.
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: "reece_k1"
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] RA6790/GM IF Filters
> Date: Tue, 08 Jan 2013 10:19:21 -0000
>
>
>
> IF Filters
>
> Whilst overhauling this RA6790/GM radio I thought I'd replace the foam strips holding the filters in place, the old black foam has deteriorated and stuck to the filters.
> After cleaning off I had a look at the filter bandwidth and numbering, these seem to be installed incorrectly and might be the reason the sound is poor.
> I did a search and found one with all 7 filters installed:
>
> FL-1 - ISB
> FL-2 - ISB
> FL-3 #1 400Hz
> FL-4 #2 1.2Khz
> FL-5 #3 3.24Khz
> FL-6 #4 6.8Khz
> FL-7 #5 16Khz

>
> Mine does not have the ISB installed:
>
> FL-1 #3 3.24Khz
> FL-2 #1 400Hz
> FL-3 #2 1.2Khz
> FL-4 #4 6.8Khz
> FL-5 #5 16Khz
> FL-6 -
> FL-7 -
>
> This doesn't look right, should filter numbers #1 to #3 be corrected and all 5 be installed in Filter slots FL-1 to 5?
> or
> should filter numbers #1 to #3 be corrected and all 5 be installed in Filter slots FL-3 to 7?
>

2054. Re: [Racal6790GM] Re: RA6790/GM IF Filters

Yahoo group: Racal6790GM
Date: 2013-01-09 10:29:10 UTC
From: gewingerd@netzero.com
Topic: 2051 Message: 2054
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2055. RE: [Racal6790GM] Re: RA6790/GM IF Filters [3 Attachments]

Yahoo group: Racal6790GM
Date: 2013-01-09 11:56:59 UTC
From: Ron Ward
Topic: 2051 Message: 2055

Hi:

Does anyone know what the narrowest "CW filter" bandwidth is that would be recognized and be useable by a Racal 6790GM?

I know that 400Hz is standard. Would a 125Hz filter work?

Thanks,

Ron

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@...m] On Behalf Of gewingerd@...
Sent: Wednesday, January 09, 2013 2:29 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Re: RA6790/GM IF Filters [3 Attachments]

[Attachment(s) from gewingerd@netzero.com included below]

I have attached a couple of documents that might help. Run the BITE LOCK & AM at the same time, to end BITE LOCK & CW

The receiver can have no more than 5 filters when the USB and LSB filters are not installed, the filter that is installed in filter slot 1 will be used as the USB and LSB filter when separate filters are not used. In most receivers a 3.24 KHz filters is installed in the first slot when the independent sideband filters are not installed.
The receiver can not have more than 1 of each bandwidth filter installed. If you install 2 or more of the same filters in the receiver it will fail BITE or will not see the extra filters when BITE is run.

Thanks,
Gary

Please note: message attached

From: "reece_k1" reece_k1@... <mailto:reece_k1%40yahoo.com.au> >
To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
Subject: [Racal6790GM] Re: RA6790/GM IF Filters
Date: Tue, 08 Jan 2013 23:32:55 -0000

2056. Re: RA6790/GM IF Filters

Yahoo group: Racal6790GM
Date: 2013-01-10 01:53:53 UTC
From: reece_k1
Topic: 2051 Message: 2056

Thanks Gary, have got the doc files and having a peruse through them.
I still have the radio in bit's and waiting for some parts to arrive, don't want to keep pulling it apart, some of the parts are the 3 EPROMS, green LEDS, pigtail caps (new name brands, not old new), these are rare!!
Should be a couple of days, I will report then of the BITE test.
Regards,
Reece.

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." wrote:
>
> I have attached a couple of documents that might help. Run the BITE LOCK & AM at the same time, to end BITE LOCK & CW
>
> The receiver can have no more than 5 filters when the USB and LSB filters are not installed, the filter that is installed in filter slot 1 will be used as the USB and LSB filter when separate filters are not used. In most receivers a 3.24 KHz filters is installed in the first slot when the independent sideband filters are not installed.
> The receiver can not have more than 1 of each bandwidth filter installed. If you install 2 or more of the same filters in the receiver it will fail BITE or will not see the extra filters when BITE is run.
>
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: "reece_k1"
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Re: RA6790/GM IF Filters
> Date: Tue, 08 Jan 2013 23:32:55 -0000
>
>
>
>
>
> Hi Gary, I'm not sure what you mean by "if no ISB filters are installed the first filter in slot 1 becomes the
> the ISB filters", I don't have the ISB card option installed, I assume you are saying that the first filter slot is the main LSB/USB filter? (I'm new to this type of radio)
> I notice that selecting the 16Khz filter displays as 20Khz, is this correct?
> Reece.
>
> BTW, I have never done the bite test, I've been afraid it might show a fault!!! (paranoid)
>

>
> --- In Racal6790GM@yahoogroups.com, "gewingerd@" wrote:
> >
> > IF Filters,
> >
> > When all 7 filters are installed the ISB filters must go into the first 2 slots, if no ISB filters are installed the first filter in slot 1 becomes the the ISB filters hence the 3.24 is now the bandwidth for USB/LSB operation. Run the BITE and see if the filters are assigned correctly with LOCK AM buttons at the same time.
> >
> > Thanks,
> > Gary
> >
> > Please note: message attached
> >
> > From: "reece_k1"
> > To: Racal6790GM@yahoogroups.com
> > Subject: [Racal6790GM] RA6790/GM IF Filters
> > Date: Tue, 08 Jan 2013 10:19:21 -0000
> >
> >
> >
> > IF Filters
> >
> > Whilst overhauling this RA6790/GM radio I thought I'd replace the foam strips holding the filters in place, the old black foam has deteriorated and stuck to the filters.
> > After cleaning off I had a look at the filter bandwidth and numbering, these seem to be installed incorrectly and might be the reason the sound is poor.
> > I did a search and found one with all 7 filters installed:
> >
> > FL-1 - ISB
> > FL-2 - ISB
> > FL-3 #1 400Hz
> > FL-4 #2 1.2Khz
> > FL-5 #3 3.24Khz
> > FL-6 #4 6.8Khz
> > FL-7 #5 16Khz
> >
> > Mine does not have the ISB installed:
> >
> > FL-1 #3 3.24Khz
> > FL-2 #1 400Hz
> > FL-3 #2 1.2Khz
> > FL-4 #4 6.8Khz
> > FL-5 #5 16Khz
> > FL-6 -
> > FL-7 -
> >
> > This doesn't look right, should filter numbers #1 to #3 be corrected and all 5 be installed in Filter slots FL-1 to 5?

> > or
> > should filter numbers #1 to #3 be corrected and all 5 be installed in Filter slots FL-3 to 7?
> >
>

2057. Re: [Racal6790GM] Re: RA6790/GM IF Filters

Yahoo group: Racal6790GM
Date: 2013-01-10 02:18:25 UTC
From: Dan Rae
Topic: 2051 Message: 2057

> FL-1 #3 3.24Khz
> FL-2 #1 400Hz
> FL-3 #2 1.2Khz
> FL-4 #4 6.8Khz
> FL-5 #5 16Khz
> FL-6 -
> FL-7 -
>
> This doesn't look right, should filter numbers #1 to #3 be corrected and all 5 be installed in Filter slots FL-1 to 5?
> or
> should filter numbers #1 to #3 be corrected and all 5 be installed in Filter slots FL-3 to 7?

Reece, what nobody has told you as far as I have seen is that there is absolutely nothing wrong with the positions of the filters in your radio. I would suggest you leave them exactly where you found them.

It is /all/ in the manual.

That marking on some of the filters where it says "Filter #1" or whatever is*/NOT /*related to the position they occupy on the board.

Apart from the FL1 slot which should have the 3.24 filter in it for correct ssb operation (and then it will also work as a symmetrical filter) the others can be in any position so long as you run BITE and the radio then knows where they are.

73 - Dan

2058. Re: RA6790/GM IF Filters

Yahoo group: Racal6790GM
Date: 2013-01-10 03:27:00 UTC
From: reece_k1
Topic: 2051 Message: 2058

Thanks Dan, the EPROMs have arrived, my wife has picked them up, she will be here later this evening. Should I do a BITE test before swapping the IC's? or is it better to run the test with the new chips? (does the VLF have to be setup by the BITE program?)
Reece.

--- In Racal6790GM@...m, Dan Rae wrote:
>
> > FL-1 #3 3.24Khz
> > FL-2 #1 400Hz
> > FL-3 #2 1.2Khz
> > FL-4 #4 6.8Khz
> > FL-5 #5 16Khz
> > FL-6 -
> > FL-7 -
> >
> > This doesn't look right, should filter numbers #1 to #3 be corrected and all 5 be installed in Filter slots FL-1 to 5?
> > or
> > should filter numbers #1 to #3 be corrected and all 5 be installed in Filter slots FL-3 to 7?
>
>
>
> Reece, what nobody has told you as far as I have seen is that there is
> absolutely nothing wrong with the positions of the filters in your
> radio. I would suggest you leave them exactly where you found them.
>
> It is /all/ in the manual.
>
> That marking on some of the filters where it says "Filter #1" or
> whatever is*/NOT /*related to the position they occupy on the board.
>
> Apart from the FL1 slot which should have the 3.24 filter in it for
> correct ssb operation (and then it will also work as a symmetrical
> filter) the others can be in any position so long as you run BITE and
> the radio then knows where they are.
>
> 73 - Dan
>

2059. Re: [Racal6790GM] Re: RA6790/GM IF Filters

Yahoo group: Racal6790GM
Date: 2013-01-10 04:45:47 UTC
From: Dan Rae
Topic: 2051 Message: 2059

On 1/9/2013 7:27 PM, reece_k1 wrote:
> Thanks Dan, the EPROMs have arrived, my wife has picked them up, she will be here later this evening. Should I do a BITE test before swapping the IC's? or is it better to run the test with the new chips? (does the VLF have to be setup by the BITE program?)
> Reece.
>
>
>
Reece, you don't need to run BITE unless you want to. The change of
eproms will not affect anything else other than the tuning rates and the
LF extension.

Dan

2060. Re: RA6790/GM IF Filters

Yahoo group: Racal6790GM
Date: 2013-01-11 10:28:46 UTC
From: reece_k1
Topic: 2051 Message: 2060

Hi Dan, I have replaced the EPROMS and the radio seems to function correctly, I now have 10Hz steps instead of 30 Hz, this is great however when I try tuning below 500Khz it jumps back to 29.999.999Mhz.
Is there something I'm doing wrong?
Thanks,
Reece.

--- In Racal6790GM@yahoogroups.com, Dan Rae wrote:
>
> On 1/9/2013 7:27 PM, reece_k1 wrote:
> > Thanks Dan, the EPROMs have arrived, my wife has picked them up, she will be here later this evening. Should I do a BITE test before swapping the IC's? or is it better to run the test with the new chips? (does the VLF have to be setup by the BITE program?)
> > Reece.
> >
> >
> >
> Reece, you don't need to run BITE unless you want to. The change of
> eproms will not affect anything else other than the tuning rates and the
> LF extension.
>
> Dan
>

2061. Re: RA6790/GM IF Filters

Yahoo group: Racal6790GM
Date: 2013-01-11 10:36:33 UTC
From: reece_k1
Topic: 2051 Message: 2061

Hi Gary, I assume that it doesn't matter if slots FL-1 & 2 are used by non ISB filters?
I ran the BITE test and had my pen handy, what a weird experience!! I had the antenna plugged in and the sound on so it made some funny beep tones during the test!!
I watched it go from 29Mhz down to 0Mhz (seemed like it) then went through filter and SSB tests, all passed, no errors!!
Thanks,
Reece.

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." wrote:
>
> I have attached a couple of documents that might help. Run the BITE LOCK & AM at the same time, to end BITE LOCK & CW
>
> The receiver can have no more than 5 filters when the USB and LSB filters are not installed, the filter that is installed in filter slot 1 will be used as the USB and LSB filter when separate filters are not used. In most receivers a 3.24 KHz filters is installed in the first slot when the independent sideband filters are not installed.
> The receiver can not have more than 1 of each bandwidth filter installed. If you install 2 or more of the same filters in the receiver it will fail BITE or will not see the extra filters when BITE is run.
>
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: "reece_k1"
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Re: RA6790/GM IF Filters
> Date: Tue, 08 Jan 2013 23:32:55 -0000
>
>
>
>
>
> Hi Gary, I'm not sure what you mean by "if no ISB filters are installed the first filter in slot 1 becomes the
> the ISB filters", I don't have the ISB card option installed, I assume you are saying that the first filter slot is the main LSB/USB filter? (I'm new to this type of radio)
> I notice that selecting the 16Khz filter displays as 20Khz, is this correct?
> Reece.
>
> BTW, I have never done the bite test, I've been afraid it might show a fault!!! (paranoid)
>

>
> --- In Racal6790GM@yahoogroups.com, "gewingerd@" wrote:
> >
> > IF Filters,
> >
> > When all 7 filters are installed the ISB filters must go into the first 2 slots, if no ISB filters are installed the first filter in slot 1 becomes the the ISB filters hence the 3.24 is now the bandwidth for USB/LSB operation. Run the BITE and see if the filters are assigned correctly with LOCK AM buttons at the same time.
> >
> > Thanks,
> > Gary
> >
> > Please note: message attached
> >
> > From: "reece_k1"
> > To: Racal6790GM@yahoogroups.com
> > Subject: [Racal6790GM] RA6790/GM IF Filters
> > Date: Tue, 08 Jan 2013 10:19:21 -0000
> >
> >
> >
> > IF Filters
> >
> > Whilst overhauling this RA6790/GM radio I thought I'd replace the foam strips holding the filters in place, the old black foam has deteriorated and stuck to the filters.
> > After cleaning off I had a look at the filter bandwidth and numbering, these seem to be installed incorrectly and might be the reason the sound is poor.
> > I did a search and found one with all 7 filters installed:
> >
> > FL-1 - ISB
> > FL-2 - ISB
> > FL-3 #1 400Hz
> > FL-4 #2 1.2Khz
> > FL-5 #3 3.24Khz
> > FL-6 #4 6.8Khz
> > FL-7 #5 16Khz
> >
> > Mine does not have the ISB installed:
> >
> > FL-1 #3 3.24Khz
> > FL-2 #1 400Hz
> > FL-3 #2 1.2Khz
> > FL-4 #4 6.8Khz
> > FL-5 #5 16Khz
> > FL-6 -
> > FL-7 -
> >
> > This doesn't look right, should filter numbers #1 to #3 be corrected and all 5 be installed in Filter slots FL-1 to 5?

> > or
> > should filter numbers #1 to #3 be corrected and all 5 be installed in Filter slots FL-3 to 7?
> >
>

2062. Re: RA6790/GM IF Filters

Yahoo group: Racal6790GM
Date: 2013-01-11 10:48:07 UTC
From: reece_k1
Topic: 2051 Message: 2062

Hi Gary, I just noticed that the previous 20Khz bandwidth is showing as 18Khz now.
Cheers

--- In Racal6790GM@yahoogroups.com, "reece_k1" wrote:
>
> Hi Dan, I have replaced the EPROMS and the radio seems to function correctly, I now have 10Hz steps instead of 30 Hz, this is great however when I try tuning below 500Khz it jumps back to 29.999.999Mhz.
> Is there something I'm doing wrong?
> Thanks,
> Reece.
>
> --- In Racal6790GM@yahoogroups.com, Dan Rae wrote:
> >
> > On 1/9/2013 7:27 PM, reece_k1 wrote:
> > > Thanks Dan, the EPROMs have arrived, my wife has picked them up, she will be here later this evening. Should I do a BITE test before swapping the IC's? or is it better to run the test with the new chips? (does the VLF have to be setup by the BITE program?)
> > > Reece.
> > >
> > >
> > >
> > Reece, you don't need to run BITE unless you want to. The change of
> > eproms will not affect anything else other than the tuning rates and the
> > LF extension.
> >
> > Dan
> >
>

2063. Re: [Racal6790GM] Re: RA6790/GM IF Filters

Yahoo group: Racal6790GM
Date: 2013-01-11 19:07:20 UTC
From: gewingerd@netzero.com
Topic: 2051 Message: 2063
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2064. RA6790GM Line out and CW mode

Yahoo group: Racal6790GM
Date: 2013-01-13 01:31:24 UTC
From: reece_k1
Topic: 2064 Message: 2064

Since I purchased this radio mainly for utility station decoding I need an audio line out. I noticed that pins 4 & 17 of the DB25 are marked as Audio Line out but they appear to be dead.
There are plenty of spare pins on the DB25, I could wire a line out to 2 of them if needed but thought I'd check here first.
BTW, since the USB/LSB is a fixed bandwidth I will have to try using the CW mode with a BFO offset, has anyone tried this?
Thanks.

2065. Re: [Racal6790GM] RA6790GM Line out and CW mode

Yahoo group: Racal6790GM
Date: 2013-01-13 01:45:29 UTC
From: gewingerd@netzero.com
Topic: 2064 Message: 2065
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2066. Re: [Racal6790GM] RA6790GM Line out and CW mode

Yahoo group: Racal6790GM
Date: 2013-01-13 01:49:32 UTC
From: John Simon
Topic: 2064 Message: 2066

You might try pins 18 and 6.

John de VK2XGJ
I try to act normal, but I get bored
and go back to just being me!
-----Original Message-----
From: reece_k1
Sent: Sunday, January 13, 2013 12:31 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] RA6790GM Line out and CW mode

Since I purchased this radio mainly for utility station decoding I need an audio line out. I noticed that pins 4 & 17 of the DB25 are marked as Audio Line out but they appear to be dead.
There are plenty of spare pins on the DB25, I could wire a line out to 2 of them if needed but thought I'd check here first.
BTW, since the USB/LSB is a fixed bandwidth I will have to try using the CW mode with a BFO offset, has anyone tried this?
Thanks.

Yahoo! Groups Links

2067. Re: [Racal6790GM] RA6790GM Line out and CW mode

Yahoo group: Racal6790GM
Date: 2013-01-13 01:55:29 UTC
From: Kevin Alfred Strom
Topic: 2064 Message: 2067

On 1/12/2013 8:49 PM, John Simon wrote:
> You might try pins 18 and 6.
>
>
>
[...]

Also double check to be sure the "main line level" screwdriver
adjust potentiometer on the front panel is turned up.

73,

Kevin.

2068. Re: [Racal6790GM] RA6790GM Line out and CW mode

Yahoo group: Racal6790GM
Date: 2013-01-13 01:59:19 UTC
From: Dan Rae
Topic: 2064 Message: 2068

On 1/12/2013 5:31 PM, reece_k1 wrote:
> Since I purchased this radio mainly for utility station decoding I need an audio line out. I noticed that pins 4 & 17 of the DB25 are marked as Audio Line out but they appear to be dead.
> There are plenty of spare pins on the DB25, I could wire a line out to 2 of them if needed but thought I'd check here first.
> BTW, since the USB/LSB is a fixed bandwidth I will have to try using the CW mode with a BFO offset, has anyone tried this?
> Thanks.
>
>
>

Reece, the line out is balanced, usually with pin 5 as ground, if the link near the transformer on the A4 board is made, otherwise 4 and 17 float and it can be used single ended.

Maybe you have the line level control turned down to nothing? Does the AF meter work? I can't imagine what else could be wrong...

And if you want to simulate a single sideband reception with other than voice width then yes you can use a narrow filter with a BFO offset when in CW mode, but of course you will have to do the math to find out what the carrier frequency actually is. Some of the versions of the UK RA1792 came with offset narrow sideband filters, 400 and 800 Hz I think, which were used for data reception, so no math needed. I always pulled them out :^)

Dan

2069. RA6790/GM lighting

Yahoo group: Racal6790GM
Date: 2013-01-13 03:29:40 UTC
From: John Simon
Topic: 2064 Message: 2069

About the only real problem with my RA6790/GM is the dial and mode lighting
is no working.
Someone mentioned that there are boards available to fix this.

Anyone on the list assist me with an email address or URL please.

John de VK2XGJ
I try to act normal, but I get bored
and go back to just being me!

2070. Re: RA6790GM Line out and CW mode

Yahoo group: Racal6790GM
Date: 2013-01-13 03:55:22 UTC
From: reece_k1
Topic: 2064 Message: 2070

Thanks Dan, Gary, Kevin & John, what I would like is a constant gain line out, I want the AF gain control for the speaker/headphone only, I will run a line from the Vol I/P signal, J2-15 (A4 Sheet 5) through a capacitor to pin 24 of the DB25.
I have replaced the mono phone jack with a switched stereo plug, now my headphones work on both sides!! I have also cut out an aluminum plate to fit in the ISB board location using the existing 4 screws where I have mounted an 8 ohm oval speaker. No holes drilled so the radio can be easily returned to its original condition. When I plug the headphones in, the speaker cuts out, but not the rear DB25 plug connector.
I have also mounted a DB9 plug just below the A6A1 J1 remote connector, looks 100% and works well.
Another Job done was replacing the front light panel with green Leds, works quite well but not too happy with the "over glow", the frequency LCD display was easy but the other took a bit of working out so it didn't get a black spot.
Still more ordered parts to come so not finished yet.
Thanks,

Reece.

--- In Racal6790GM@yahoogroups.com, Dan Rae wrote:
>
> On 1/12/2013 5:31 PM, reece_k1 wrote:
> > Since I purchased this radio mainly for utility station decoding I need an audio line out. I noticed that pins 4 & 17 of the DB25 are marked as Audio Line out but they appear to be dead.
> > There are plenty of spare pins on the DB25, I could wire a line out to 2 of them if needed but thought I'd check here first.
> > BTW, since the USB/LSB is a fixed bandwidth I will have to try using the CW mode with a BFO offset, has anyone tried this?
> > Thanks.
> >
> >
> >
> Reece, the line out is balanced, usually with pin 5 as ground, if the
> link near the transformer on the A4 board is made, otherwise 4 and 17
> float and it can be used single ended.
>
> Maybe you have the line level control turned down to nothing? Does the
> AF meter work? I can't imagine what else could be wrong...
>
> And if you want to simulate a single sideband reception with other than
> voice width then yes you can use a narrow filter with a BFO offset when
> in CW mode, but of course you will have to do the math to find out what
> the carrier frequency actually is. Some of the versions of the UK
> RA1792 came with offset narrow sideband filters, 400 and 800 Hz I think,
> which were used for data reception, so no math needed. I always pulled

> them out :^)
>
> Dan
>

2071. Re: RA6790GM Line out and CW mode

Yahoo group: Racal6790GM
Date: 2013-01-13 08:55:16 UTC
From: reece_k1
Topic: 2064 Message: 2071

I wouldn't try adjusting that, according to the tech manual a RF Signal generator is needed to inject a 3.5Mhz signal into J1 on the rear panel, after setting the receiver to 3.5Mhz adjust the Main Line Level pot till the AF display reads 1mw audio output.
If Gary is reading this is there another way to adjust this without a signal injector?
Thanks.

--- In Racal6790GM@yahoogroups.com, Kevin Alfred Strom wrote:
>
> On 1/12/2013 8:49 PM, John Simon wrote:
> > You might try pins 18 and 6.
> >
> >
> >
> [...]
>
>
>
> Also double check to be sure the "main line level" screwdriver
> adjust potentiometer on the front panel is turned up.
>
> 73,
>
> Kevin.
>

2072. Re: [Racal6790GM] Re: RA6790GM Line out and CW mode

Yahoo group: Racal6790GM
Date: 2013-01-13 18:49:58 UTC
From: Kevin Alfred Strom
Topic: 2064 Message: 2072

On 1/13/2013 3:55 AM, reece_k1 wrote:
> I wouldn't try adjusting that, according to the tech manual a RF Signal generator is needed to inject a 3.5Mhz signal into J1 on the rear panel, after setting the receiver to 3.5Mhz adjust the Main Line Level pot till the AF display reads 1mw audio output.
> If Gary is reading this is there another way to adjust this without a signal injector?
> Thanks.
>

I wouldn't worry too much about adjusting it. It's just an audio gain potentiometer. You can't hurt anything by adjusting it, and you can always just put it back where it was if you want to. And it doesn't affect the speaker out level.

I observed the line out waveform on an oscilloscope while the Racal was tuned to strong AM and SSB signals, and adjusted the level so it was well below clipping at all times, but way above the audio stage's own noise level. The result is very good quality, and an ideal level for driving amplified speakers, high fidelity amplifiers, or my computer's line in jack.

All the best,

Kevin.

[...]
>>
>> Also double check to be sure the "main line level" screwdriver
>> adjust potentiometer on the front panel is turned up.
>>
>> 73,
>>
>> Kevin.
[...]

2073. Re: [Racal6790GM] RA6790/GM lighting

Yahoo group: Racal6790GM
Date: 2013-01-13 20:11:01 UTC
From: noel.lipscombe
Topic: 2064 Message: 2073

Hi John,

Gary Wingerd (gewingerd@...) has replacement LED boards which are fairly easy to fit and perform well.

Noel

From: John Simon
Sent: Sunday, January 13, 2013 2:29 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] RA6790/GM lighting

About the only real problem with my RA6790/GM is the dial and mode lighting
is no working.
Someone mentioned that there are boards available to fix this.

Anyone on the list assist me with an email address or URL please.

John de VK2XGJ
I try to act normal, but I get bored
and go back to just being me!

2074. Problems with error 15, A7 power and A4 allignment

Yahoo group: Racal6790GM
Date: 2013-01-14 18:13:00 UTC
From: josepharuggieri
Topic: 2074 Message: 2074

I have been repairing my 6790 and need help with several issues.
When I run bite it shows error 15. Once I use lock/cw bite continues
and the radio works but 16khz filter shows 7-8khz.
A filters test correct on my spectrum analyzer including 16khz.
Does not show BW in side band mode. Not sure if that is correct?

Next, doing A4 calibration I can't adjust R47 down to 8.5v, only goes to 8.9v.
Can't adjust R39 up to -10dBm, can only get to -16dBm.

Now A7 problems.
Test point is correct at 10.00v.
L5 is adjusted correctly.
The problem is the LO output power is only 3dBm at 500khz and goes up
linearly with frequency to 9dBm at 29.999Mhz.
1st mixer is the new type with the large mixer box.

Thanks Joe KI4NPV

2075. Re: Problems with error 15, A7 power and A4 allignment

Yahoo group: Racal6790GM
Date: 2013-01-15 01:58:50 UTC
From: reece_k1
Topic: 2074 Message: 2075

Hi I can't help much but certainly the BW doesn't show on the mode LCD for USB/LSB, all other modes do.
Cheers

--- In Racal6790GM@yahoogroups.com, "josepharuggieri" wrote:
>
> I have been repairing my 6790 and need help with several issues.
> When I run bite it shows error 15. Once I use lock/cw bite continues
> and the radio works but 16khz filter shows 7-8khz.
> A filters test correct on my spectrum analyzer including 16khz.
> Does not show BW in side band mode. Not sure if that is correct?
>
> Next, doing A4 calibration I can't adjust R47 down to 8.5v, only goes to 8.9v.
> Can't adjust R39 up to -10dBm, can only get to -16dBm.
>
> Now A7 problems.
> Test point is correct at 10.00v.
> L5 is adjusted correctly.
> The problem is the LO output power is only 3dBm at 500khz and goes up
> linearly with frequency to 9dBm at 29.999Mhz.
> 1st mixer is the new type with the large mixer box.
>
> Thanks Joe KI4NPV
>

2076. 6790 remote control program

Yahoo group: Racal6790GM
Date: 2013-01-17 04:28:29 UTC
From: reece_k1
Topic: 2076 Message: 2076

I have tried this program again, I am using a standard RS232 Com port (com 1) and I can start the program and put the radio into remote mode from the program but this is all it shows when connected:
http://i66.photobucket.com/albums/h244/Reecehk/RA6790control_zpsa1ec7b63.jpg

It still seems that the program controls the radio but the radio does not update the program in any way, if someone uses this software can they confirm that the radio should show signal strength and various modes. It is just sending data from the program to the radio, not the other way around, most frustrating!!

2077. Re: [Racal6790GM] 6790 remote control program

Yahoo group: Racal6790GM
Date: 2013-01-17 04:33:58 UTC
From: John Simon
Topic: 2076 Message: 2077

Umm Reece, at the expense of asking a dumb question, do you have the correct boards in the radio? ie A5 I think it is. no doco's here.

John de VK2XGJ
I try to act normal, but I get bored
and go back to just being me!
-----Original Message-----
From: reece_k1
Sent: Thursday, January 17, 2013 3:28 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790 remote control program

I have tried this program again, I am using a standard RS232 Com port (com 1) and I can start the program and put the radio into remote mode from the program but this is all it shows when connected:
http://i66.photobucket.com/albums/h244/Reecehk/RA6790control_zpsa1ec7b63.jpg

It still seems that the program controls the radio but the radio does not update the program in any way, if someone uses this software can they confirm that the radio should show signal strength and various modes. It is just sending data from the program to the radio, not the other way around, most frustrating!!

Yahoo! Groups Links

2078. Re: 6790 remote control program

Yahoo group: Racal6790GM
Date: 2013-01-17 04:59:01 UTC
From: reece_k1
Topic: 2076 Message: 2078

Yes!! It's typical that again I post a question and then I find the problem.
I had been playing around for about an hour and all checked out but overlooked the obvious, I was running through a Radiocom dongle, that was the problem, the dongle is not supposed to effect the port but clearly it does.
Oh well fixed now!!
Thanks.

--- In Racal6790GM@yahoogroups.com, "John Simon" wrote:
>
> Umm Reece, at the expense of asking a dumb question, do you have the
> correct boards in the radio? ie A5 I think it is. no doco's here.
>
>
>
>
> John de VK2XGJ
> I try to act normal, but I get bored
> and go back to just being me!
> -----Original Message-----
> From: reece_k1
> Sent: Thursday, January 17, 2013 3:28 PM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] 6790 remote control program
>
> I have tried this program again, I am using a standard RS232 Com port (com
> 1) and I can start the program and put the radio into remote mode from the
> program but this is all it shows when connected:
> http://i66.photobucket.com/albums/h244/Reecehk/RA6790control_zpsa1ec7b63.jpg
>
> It still seems that the program controls the radio but the radio does not
> update the program in any way, if someone uses this software can they
> confirm that the radio should show signal strength and various modes. It is
> just sending data from the program to the radio, not the other way around,
> most frustrating!!
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

2079. Racal 6790 for sale

Yahoo group: Racal6790GM
Date: 2013-01-22 02:01:09 UTC
From: Mark J Forte Sr
Topic: 2079 Message: 2079

I have
a Racal RA6790/GM I am parting with.

This unit was purchased directly from G E Wingerd

"This receiver has been fully aligned and is ready to go" G E Wingard

With
5 installed filters, and an extra 150 Hz filter

New displays, new battery, new
software, new A6A2 card A2 LO frequency EPROMs

Chrome handles on the unit also comes with a set of black
ones, manual, mating audio connector & power cable

2080. Re: [Racal6790GM] Racal 6790 for sale

Yahoo group: Racal6790GM
Date: 2013-01-22 04:07:41 UTC
From: John Simon
Topic: 2079 Message: 2080

Where are you? How many $$$?

John de VK2XGJ
Money talks
Chocolate sings!

From: Mark J Forte Sr
Sent: Tuesday, January 22, 2013 1:01 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Racal 6790 for sale

I have a Racal RA6790/GM I am parting with.

This unit was purchased directly from G E Wingerd

“This receiver has been fully aligned and is ready to go” G E Wingard

With 5 installed filters, and an extra 150 Hz filter

New displays, new battery, new software, new A6A2 card A2 LO frequency EPROMs

&nbs p; Chrome handles on the unit also comes with a set of black ones, manual, mating audio connector & power cable

2081. Re: Racal 6790 for sale

Yahoo group: Racal6790GM
Date: 2013-01-22 18:00:20 UTC
From: Peter Filozof
Topic: 2079 Message: 2081

How much for the radio?

Pix and condition?

Thanks!

Peter, N4REC, West Virginia

filozof@...<mailto:filozof@...>

2082. Racal pictures

Yahoo group: Racal6790GM
Date: 2013-01-26 01:10:58 UTC
From: Mark Forte
Topic: 2082 Message: 2082
Attachments: 5 described; binary payloads are missing from this source WARC

Hello all,

Sorry it took so long to get the pictures and original data up. Attached are the pictures and original invoice from Gary Wingerd. This unit includes manual, custom audio cord, a set of black handles, and an additional 150 hz filter.

Asking price is $1500 + shipping from Vallejo, California 94591

Mark

925-698-2814 Call if you have any questions.

2083. Racal RA2309B Intercept Receiver

Yahoo group: Racal6790GM
Date: 2013-01-30 20:01:57 UTC
From: caldwj
Topic: 2083 Message: 2083

Does anyone have any information, documentation, etc. on the Racal RA-2309B intercept receiver? This receiver uses tuning heads to cover 20-1000MHz. It's similar in construction to receivers built by Watkins Johnson, Astro Communications and others. Any help would be appreciated.

Regards,

John WD8INC

2084. The mode LCD lighting is terrible

Yahoo group: Racal6790GM
Date: 2013-02-08 10:53:17 UTC
From: reece_k1
Topic: 2084 Message: 2084

I have fiddled with the mode LCD lighting using LED's for some time now but never happy with the results, I think the original globes are best but even that is poor.
In the dark the whole area can be glowing brightly but reading the display is still a chore, the frequency LCD lighting works a treat in almost any lighting.
The problem is that the display needs direct front lighting to see it best, it's sunk too far back, very poor design.
I don't think there is a real fix for this problem, as a test I even removed the lighting pcb and made up a clear perspex of the same dimensions and fitted that, and mounted lights in roughly the same position but still no go. I did find that clear (white) LED's work best.
Anyone else played around with the mode LCD lighting with any success?

2085. RA1792

Yahoo group: Racal6790GM
Date: 2013-02-21 02:49:32 UTC
From: Raymond Boute
Topic: 185 Message: 2085

Dear group members,

I have a Racal 1792 that arrived mechanically damaged by the shipment. The bent chassis is straightened, some short-circuited tantalums were replaced, but the display (still) reads all 0's and the Rx is dead.

Trying all the obvious things (measuring the battery - nearly 3V, removing and re-inserting connectors) did not help.

Q1: How does one start troubleshooting, especially the processor board?

A possibility for localizing the faulty board is swapping with one that works (which I happen to have), but I heard warnings about compatibility issues and possible damage. Hence:

Q2: How does one know which processor boards are compatible?

Q3: In view of some rumor I heard about an insulating washer needed for some 1792 processor boards, what is the exact situation?

With best regards,

Raymond ON4DBV

2086. Re: RA1792

Yahoo group: Racal6790GM
Date: 2013-02-21 22:45:40 UTC
From: reece_k1
Topic: 185 Message: 2086

Hi, that is a bit of bad luck!!! Do you know for a fact that the radio worked prior to shipping?
If so then I would remove each board and go over it with a magnifying glass, it is likely mechanical damage, check for dry joints, broken wires etc. Be aware of plated through holes that when replacing parts check continuity to either side of the board.
Where the chassis was bent this also would have put strain on various components, check that the legs are actually connected, also check for fine cracks in the pcb.
I can't help much further I don't own that model of radio.
Good luck.

--- In Racal6790GM@yahoogroups.com, Raymond Boute <Raymond.Boute@...> wrote:
>
> Dear group members,
>
> I have a Racal 1792 that arrived mechanically damaged by the
> shipment. The bent chassis is straightened, some short-circuited
> tantalums were replaced, but the display (still) reads all 0's and
> the Rx is dead.
>
> Trying all the obvious things (measuring the battery - nearly 3V,
> removing and re-inserting connectors) did not help.
>
> Q1: How does one start troubleshooting, especially the processor board?
>
> A possibility for localizing the faulty board is swapping with one
> that works (which I happen to have), but I heard warnings about
> compatibility issues and possible damage. Hence:
>
> Q2: How does one know which processor boards are compatible?
>
> Q3: In view of some rumor I heard about an insulating washer needed
> for some 1792 processor boards, what is the exact situation?
>
> With best regards,
>
> Raymond ON4DBV
>

2087. Re: [Racal6790GM] Re: RA1792

Yahoo group: Racal6790GM
Date: 2013-02-22 10:30:20 UTC
From: gewingerd@netzero.net
Topic: 185 Message: 2087
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2088. Thanks for RA1792 advice

Yahoo group: Racal6790GM
Date: 2013-02-24 07:40:45 UTC
From: Raymond Boute
Topic: 2088 Message: 2088

Dear RA1792 users,

My thanks to Reece_k1 and Gary for their advice.

Carefully removing and putting back the processor and IEEE488 boards
and connectors seems to have solved the problem.

Regards,

Raymond

2089. Re: Thanks for RA1792 advice

Yahoo group: Racal6790GM
Date: 2013-02-24 10:21:15 UTC
From: reece_k1
Topic: 2088 Message: 2089

Hi Raymond, great news, I bet that was a sigh of relief!! Could have been very costly indeed.
I hope it all comes together nicely.
Cheers,
Reece.

--- In Racal6790GM@yahoogroups.com, Raymond Boute <Raymond.Boute@...> wrote:
>
> Dear RA1792 users,
>
> My thanks to Reece_k1 and Gary for their advice.
>
> Carefully removing and putting back the processor and IEEE488 boards
> and connectors seems to have solved the problem.
>
> Regards,
>
> Raymond
>

2090. Question re RA6778C

Yahoo group: Racal6790GM
Date: 2013-02-25 19:25:15 UTC
From: ve1ii
Topic: 2090 Message: 2090

Hi,

The "zero" key on the keypad of my RA6778C has recently stopped working.

I wonder if there might be someone with enough experience with such a problem, who could suggest some of the more obvious possibilities for finding the problem?
The key stopped working suddenly (didn't get gradually worse). :-)

Thanks for any help.

73,
Bruce, VE1II

2091. Re: [Racal6790GM] Question re RA6778C

Yahoo group: Racal6790GM
Date: 2013-02-25 19:35:37 UTC
From: gewingerd@netzero.com
Topic: 2090 Message: 2091
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2092. Re: [Racal6790GM] Question re RA6778C

Yahoo group: Racal6790GM
Date: 2013-02-25 19:41:13 UTC
From: Dan Rae
Topic: 2090 Message: 2092

On 2/25/2013 11:25 AM, ve1ii wrote:
> Hi,
>
> The "zero" key on the keypad of my RA6778C has recently stopped working.
>
> I wonder if there might be someone with enough experience with such a problem, who could suggest some of the more obvious possibilities for finding the problem?
> The key stopped working suddenly (didn't get gradually worse). :-)
>
Bruce, I only have an RA6778A here, but the keypads on those are
terrible, even some 'new' spares I got with factory tags on them had
dead Hall effect sensors. If that is the problem with yours then it
is possible to replace the sensor inside the switch. I used a Panasonic
part and re-built both the pads completely on mine maybe ten years ago
and since then no further trouble.

Good luck!

Dan

ac6ao / g3ncr

2093. Re: [Racal6790GM] Question re RA6778C - parts available

Yahoo group: Racal6790GM
Date: 2013-02-25 22:03:30 UTC
From: J. Strupat
Topic: 2093 Message: 2093

Hi Bruce,

Will email you directly on this.
I have a very complete inventory of parts and assemblies for the RA6778C
from the Kingston ARC.
Should be able to help you diagnose this problem and get parts to you.

Cheers,

John VE3PCN

----- Original Message -----
From: "ve1ii" <bharvey@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Monday, February 25, 2013 2:25 PM
Subject: [Racal6790GM] Question re RA6778C

> Hi,
>
> The "zero" key on the keypad of my RA6778C has recently stopped working.
>
> I wonder if there might be someone with enough experience with such a
> problem, who could suggest some of the more obvious possibilities for
> finding the problem?
> The key stopped working suddenly (didn't get gradually worse). :-)
>
> Thanks for any help.
>
> 73,
> Bruce, VE1II
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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>

2094. re my question on "zero" key of RA6778C

Yahoo group: Racal6790GM
Date: 2013-02-25 23:44:46 UTC
From: ve1ii
Topic: 2094 Message: 2094

Hi guys,

I have been having problems replying to the responses to my question. I keep getting the message that "the message cannot be retrieved" when I click on reply;
so I am answering as a new message.
It sounds as though I should be hoping to find a bad IC :-)
Thanks for the various comments, that kind of info very helpful.
I don't have a problem digging into things, other than the problem of trying to have things opened up enough enough to make measurements, but still being able to have power applied to do some testing.
I will use your comments to assist me in how to start out.
At least I know enough now, to not expect that a shot of tuner spray will fix things!

I will report back when I have made some progress.
Thanks!

Bruce, VE1II

2095. Re: re my question on "zero" key of RA6778C

Yahoo group: Racal6790GM
Date: 2013-02-26 03:11:27 UTC
From: reece_k1
Topic: 2094 Message: 2095

Hi Bruce, how many pins does the key have? usually hall effect has 3 or 4, 2 to power a small circuit that produces a pulse when the key is pressed and 1 or 2 for the pulsed signal output. Mechanical or reed switches (magnet moves when button pressed) usually only 2 pins, you could just short to see if a zero is displayed.
It would figure that the zero key is the most used/warn.
If the key is a hall effect then a good tool would be a logic probe.
Best of luck.

--- In Racal6790GM@yahoogroups.com, "ve1ii" <bharvey@...> wrote:
>
> Hi guys,
>
> I have been having problems replying to the responses to my question. I keep getting the message that "the message cannot be retrieved" when I click on reply;
> so I am answering as a new message.
> It sounds as though I should be hoping to find a bad IC :-)
> Thanks for the various comments, that kind of info very helpful.
> I don't have a problem digging into things, other than the problem of trying to have things opened up enough enough to make measurements, but still being able to have power applied to do some testing.
> I will use your comments to assist me in how to start out.
> At least I know enough now, to not expect that a shot of tuner spray will fix things!
>
> I will report back when I have made some progress.
> Thanks!
>
> Bruce, VE1II
>

2096. Re: re my question on "zero" key of RA6778C

Yahoo group: Racal6790GM
Date: 2013-02-26 13:03:27 UTC
From: ve1ii
Topic: 2094 Message: 2096

Hi,
I can't answer that just yet. I haven't taken things apart enough to look at the board that relates to the keypad. I will report back when I am able to test your suggestion and others.

Bruce

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
>
> Hi Bruce, how many pins does the key have? usually hall effect has 3 or 4, 2 to power a small circuit that produces a pulse when the key is pressed and 1 or 2 for the pulsed signal output. Mechanical or reed switches (magnet moves when button pressed) usually only 2 pins, you could just short to see if a zero is displayed.
> It would figure that the zero key is the most used/warn.
> If the key is a hall effect then a good tool would be a logic probe.
> Best of luck.
>
>
> --- In Racal6790GM@yahoogroups.com, "ve1ii" <bharvey@> wrote:
> >
> > Hi guys,
> >
> > I have been having problems replying to the responses to my question. I keep getting the message that "the message cannot be retrieved" when I click on reply;
> > so I am answering as a new message.
> > It sounds as though I should be hoping to find a bad IC :-)
> > Thanks for the various comments, that kind of info very helpful.
> > I don't have a problem digging into things, other than the problem of trying to have things opened up enough enough to make measurements, but still being able to have power applied to do some testing.
> > I will use your comments to assist me in how to start out.
> > At least I know enough now, to not expect that a shot of tuner spray will fix things!
> >
> > I will report back when I have made some progress.
> > Thanks!
> >
> > Bruce, VE1II
> >
>

2097. Re: [Racal6790GM] Question re RA6778C - keyboard construction

Yahoo group: Racal6790GM
Date: 2013-02-26 15:10:23 UTC
From: J. Strupat
Topic: 2097 Message: 2097

Hi Bruce,

The keys on the 6778C are Hall Effect switches made by Honeywell.
The output from the switch is open collector transistor logic that is pulled UP by a 10K ohm resistor in package U8A.
Pressing the key produces a steady change in output voltage, not a single pulse.

You can check the operation of the switch with the power ON by measuring the voltage at Pin 6 of U11A (14503).
Pressing the key should bring the voltage down to near 0.
Releasing it should read 5 VDC.

John VE3PCN

----- Original Message -----
From: "ve1ii" <bharvey@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Monday, February 25, 2013 2:25 PM
Subject: [Racal6790GM] Question re RA6778C

> Hi,
>
> The "zero" key on the keypad of my RA6778C has recently stopped working.
>
> I wonder if there might be someone with enough experience with such a
> problem, who could suggest some of the more obvious possibilities for
> finding the problem?
> The key stopped working suddenly (didn't get gradually worse). :-)
>
> Thanks for any help.
>
> 73,
> Bruce, VE1II
>
>
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> Yahoo! Groups Links
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2098. FS: Racal 6830 and 6830/JD parts units

Yahoo group: Racal6790GM
Date: 2013-03-02 18:26:44 UTC
From: Tom B
Topic: 2098 Message: 2098

Hello All,

I have for sale some Racal 6830 and 6830/JD parts units.
There are no complete units.
3 6830/JD chassis with power supplies and some circuit cards
2 6830 chassis mother boards are there and a couple of cards
There are 18 circuit cards total for the 5 chassis.
There are also 2 outer cases.

There are no front panels or filters. There are no controller cards for the 6830/JD. There is one controller card for the 6830.
Photos are available on request.
All are sold as is untested.
Price is $300 plus shipping for the lot.

Tom Bryan
N3AJA

2099. Remote operation 6790 GM

Yahoo group: Racal6790GM
Date: 2013-03-06 05:54:03 UTC
From: noel.lipscombe
Topic: 2099 Message: 2099

I am planning to try remote operation and am looking for some suggestions on the best software to use. My main reason is to create a stack of memories so help from someone who has done this will be appreciated. Noel (VK2ANJ)

2100. Re: Remote operation 6790 GM

Yahoo group: Racal6790GM
Date: 2013-03-06 11:40:42 UTC
From: reece_k1
Topic: 2099 Message: 2100

--- In Racal6790GM@yahoogroups.com, "noel.lipscombe" <noel.lipscombe@...> wrote:
>
> I am planning to try remote operation and am looking for some suggestions on the best software to use. My main reason is to create a stack of memories so help from someone who has done this will be appreciated. Noel (VK2ANJ)
>
Hi Noel, to my knowledge this is the only software available:
http://integraonline.com/~w6ger//index.html

The only problem or thing I don't like about it is that when using CW mode the main dial adjusts the BFO offset not the frequency.

2101. Re: Racal RA 1792 readout failure

Yahoo group: Racal6790GM
Date: 2013-03-08 16:23:53 UTC
From: GERMAN GUTIERREZ
Topic: 2099 Message: 2101

Does anyone have problems with the RA 1792 display?
Mine doesn´t change the frecuency when move the tuning knob, in ssb the bfo is locked too. Perhaps a encoder failure?
The only way to change the frequency is via keypad and I can´t change memory cannels neither.
The failure was while the receiver was working, suddenly while tuning the bands the digital readout stopped. I swithed off it and on on again after a few minutes and works properly but after a few seconds the display locked again.

2102. Re: [Racal6790GM] Re: Racal RA 1792 readout failure

Yahoo group: Racal6790GM
Date: 2013-03-08 18:05:11 UTC
From: casy_ch@tbwil.ch
Topic: 2099 Message: 2102

Have you run BYTE ? If there is a problem it would surely show up.

Jean-Claude

Am 08.03.2013 17:23, schrieb GERMAN GUTIERREZ:
> Does anyone have problems with the RA 1792 display?
> Mine doesn´t change the frecuency when move the tuning knob, in ssb
> the bfo is locked too.
> Perhaps a encoder failure?
> The only way to change the frequency is via keypad and I can´t change
> memory cannels neither.
> The failure was while the receiver was working, suddenly while tuning
> the bands the digital readout stopped. I swithed off it and on on
> again after a few minutes and works properly but after a few seconds
> the display locked again.
>
> ---
>
>
>
>

2103. Re: [Racal6790GM] Re: Racal RA 1792 readout failure

Yahoo group: Racal6790GM
Date: 2013-03-08 18:21:33 UTC
From: Dan Rae
Topic: 2099 Message: 2103

On 3/8/2013 10:05 AM, casy_ch@... wrote:
>
>
> Have you run BYTE ? If there is a problem it would surely show up.
Not all versions of the 1792 have BITE, and in any case it wouldn't show up an encoder failure. I have seen U29 or U30 fail on the front panel memory board (both OPB706A), and five minutes with an oscilloscope or Voltmeter will show if these are working. At least a good place to start :^)

dr

2104. RA1792 remote S-meter reading

Yahoo group: Racal6790GM
Date: 2013-03-10 14:18:29 UTC
From: Raymond Boute
Topic: 2104 Message: 2104

Dear group members,

The Racal 1792 manual specifies that, for the IEEE488 remote control, the command T with parameter F returns the frequency. This works as stated. However, T with parameter R should return the S-meter reading, but the receiver seems to return nothing. Has anyone more information on this?

With best regards,

Raymond ON4DBV

2105. Cabinet

Yahoo group: Racal6790GM
Date: 2013-03-12 00:07:28 UTC
From: Peter Filozof
Topic: 2105 Message: 2105

Does anybody know who makes the cabinet that houses the 6790 as seen on the title page of this group? It's the best I've seen, has front feet, and a nice finish. Where can I find one?

Peter

2106. Re: Cabinet

Yahoo group: Racal6790GM
Date: 2013-03-12 05:01:23 UTC
From: reece_k1
Topic: 2105 Message: 2106

Hi Peter, it is very expensive, I have just purchased one and it cost me $350, it doesn't come with tilt front feet, I had to purchase that separately, details:

Box - Schroff 10225-623

Be aware that there is no case made for the Racal this ia a standard 19" 3U case.
Feet: Metcase M5600045 (not really strong enough for the Racal imo) so I purchased "HP Agilent feet", much stronger though some drilling is required.

Hope this helps,
Reece.

--- In Racal6790GM@yahoogroups.com, "Peter Filozof" <filozof@...> wrote:
>
> Does anybody know who makes the cabinet that houses the 6790 as seen on the title page of this group? It's the best I've seen, has front feet, and a nice finish. Where can I find one?
>
> Peter
>

2107. Re: [Racal6790GM] Re: Cabinet

Yahoo group: Racal6790GM
Date: 2013-03-12 15:09:37 UTC
From: Bob Betts
Topic: 2105 Message: 2107

Peter:
You may want to check Hammond Manufacturing as an alternate.

Also, I have used several 'South Florida Racks' (ebay) as well. They are not of the same structural integrity, but very good looking (in several different finishes). Once the equipment is bolted in, the cabinets become quite sturdy...nice for the shack or family room...just a suggestion.

Bob

http://www.bobsamerica.com
http://www.youtube.com/n1kpr

--- On Tue, 3/12/13, reece_k1 <reece_k1@...> wrote:

From: reece_k1 <reece_k1@yahoo.com.au>
Subject: [Racal6790GM] Re: Cabinet
To: Racal6790GM@yahoogroups.com
Date: Tuesday, March 12, 2013, 1:01 AM

Hi Peter, it is very expensive, I have just purchased one and it cost me $350, it doesn't come with tilt front feet, I had to purchase that separately, details:

Box - Schroff 10225-623

Be aware that there is no case made for the Racal this ia a standard 19" 3U case.
Feet: Metcase M5600045 (not really strong enough for the Racal imo) so I purchased "HP Agilent feet", much stronger though some drilling is required.

Hope this helps,
Reece.

--- In Racal6790GM@yahoogroups.com, "Peter Filozof" <filozof@...> wrote:
>
> Does anybody know who makes the cabinet that houses the 6790 as seen on the title page of this group? It's the best I've seen, has front feet, and a nice finish. Where can I find one?
>
> Peter
>

2108. RA1792 cw bfo fault

Yahoo group: Racal6790GM
Date: 2013-03-13 12:33:26 UTC
From: bigbill
Topic: 2108 Message: 2108

Hello members

Have some problems with my ra1792
byte test 100% OK no errors

All-most all modes working OK except one cw/bfo mode is not working properly
when i switch to cw mode the mode display indicate a fault
the bfo display section show + 02
after changing the bfo frequency
fault indication disappear and all likes OK
after switching to AM and back to CW
I have to repeat the hole procedure above explained.

Hope you can help me to resolve the problem

Nico Holland

2109. Re: [Racal6790GM] RA1792 cw bfo fault

Yahoo group: Racal6790GM
Date: 2013-03-13 14:46:42 UTC
From: Dan Rae
Topic: 2108 Message: 2109

On 3/13/2013 5:33 AM, bigbill wrote:
> Hello members
>
> Have some problems with my ra1792
> byte test 100% OK no errors
>
> All-most all modes working OK except one cw/bfo mode is not working properly
> when i switch to cw mode the mode display indicate a fault
> the bfo display section show + 02
> after changing the bfo frequency
> fault indication disappear and all likes OK
> after switching to AM and back to CW
> I have to repeat the hole procedure above explained.
>
> Hope you can help me to resolve the problem
>
> Nico Holland
>
>
Nico, it seems to me that you need to do the pre-setting procedure described in the manual at least for the CW mode and maybe the other modes as well. You need to open the top to get at the DIP switch on the back of the front panel board and follow the manual procedure. This sets the default settings for bandwidth, AGC and BFO, where appropriate for each mode.

With any luck this should work. If not, you may have a faulty EAROM.

73 - Dan

2110. RACAL COLOR SCHEME

Yahoo group: Racal6790GM
Date: 2013-03-13 16:22:20 UTC
From: ra1792fan
Topic: 2110 Message: 2110

Hi all. Any one know if Racal used a British Standard paint colour for the two different greys used on the RA1792 front panel? Anyone had any joy with a decent match using a current RAL colour code or an auto touch up or hobby (Humbrol?) code? Rgds Kevin G3ZMC

2111. Re: [Racal6790GM] RACAL COLOR SCHEME

Yahoo group: Racal6790GM
Date: 2013-03-13 16:53:26 UTC
From: Phill Simmons
Topic: 2110 Message: 2111

Hi,
I have used the following colours to respray the front panels:

RAL 7010, this is an exact match (Dark)
RAL 7038, this is a little lighter (Light)

rgds,
Phill

From: ra1792fan <mummyshortlegs@...>
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, 13 March 2013, 16:22
Subject: [Racal6790GM] RACAL COLOR SCHEME

Hi all. Any one know if Racal used a British Standard paint colour for the two different greys used on the RA1792 front panel? Anyone had any joy with a decent match using a current RAL colour code or an auto touch up or hobby (Humbrol?) code? Rgds Kevin G3ZMC

2112. RE: [Racal6790GM] RACAL COLOR SCHEME

Yahoo group: Racal6790GM
Date: 2013-03-13 17:09:53 UTC
From: Andy Jackson G8JAC
Topic: 2110 Message: 2112

I suspect that the colours are taken from the British standard BS381c rather than the RAL scheme which is German in origin.

Try colour No. 697 Light Admiralty Grey and 632 Dark Admiralty Grey.
Despite the naval connotation these were commonly used for many service equipment finishes.

Most paint shops and even Halfords will make up a small quantity of paint if you give them the colour number.
Be careful comparing paint colours on a computer monitor as the presentation can vary quite a lot.

Andy G8JAC

2113. Re: RACAL COLOR SCHEME

Yahoo group: Racal6790GM
Date: 2013-03-13 18:04:18 UTC
From: ra1792fan
Topic: 2110 Message: 2113

Thanks Andy, thanks Phill.

--- In Racal6790GM@yahoogroups.com, "ra1792fan" <mummyshortlegs@...> wrote:
>
> Hi all. Any one know if Racal used a British Standard paint colour for the two different greys used on the RA1792 front panel? Anyone had any joy with a decent match using a current RAL colour code or an auto touch up or hobby (Humbrol?) code? Rgds Kevin G3ZMC
>

2114. Re: RA1792 cw bfo fault

Yahoo group: Racal6790GM
Date: 2013-03-13 18:36:05 UTC
From: bigbill
Topic: 2108 Message: 2114

Thanks Dan

I will do so and let you know if it works for me

Nico

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 3/13/2013 5:33 AM, bigbill wrote:
> > Hello members
> >
> > Have some problems with my ra1792
> > byte test 100% OK no errors
> >
> > All-most all modes working OK except one cw/bfo mode is not working properly
> > when i switch to cw mode the mode display indicate a fault
> > the bfo display section show + 02
> > after changing the bfo frequency
> > fault indication disappear and all likes OK
> > after switching to AM and back to CW
> > I have to repeat the hole procedure above explained.
> >
> > Hope you can help me to resolve the problem
> >
> > Nico Holland
> >
> >
> Nico, it seems to me that you need to do the pre-setting procedure
> described in the manual at least for the CW mode and maybe the other
> modes as well. You need to open the top to get at the DIP switch on the
> back of the front panel board and follow the manual procedure. This sets
> the default settings for bandwidth, AGC and BFO, where appropriate for
> each mode.
>
> With any luck this should work. If not, you may have a faulty EAROM.
>
> 73 - Dan
>

2115. Re: RA1792 cw bfo fault

Yahoo group: Racal6790GM
Date: 2013-03-13 20:58:55 UTC
From: bigbill
Topic: 2108 Message: 2115

OK Dan

It works no error anymore i did not used the receiver for tree years
and put it on a shelf I completely lost the now how...

Thanks Dan

--- In Racal6790GM@yahoogroups.com, "bigbill" <n.v.t@...> wrote:
>
> Thanks Dan
>
> I will do so and let you know if it works for me
>
> Nico
>
> --- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@> wrote:
> >
> > On 3/13/2013 5:33 AM, bigbill wrote:
> > > Hello members
> > >
> > > Have some problems with my ra1792
> > > byte test 100% OK no errors
> > >
> > > All-most all modes working OK except one cw/bfo mode is not working properly
> > > when i switch to cw mode the mode display indicate a fault
> > > the bfo display section show + 02
> > > after changing the bfo frequency
> > > fault indication disappear and all likes OK
> > > after switching to AM and back to CW
> > > I have to repeat the hole procedure above explained.
> > >
> > > Hope you can help me to resolve the problem
> > >
> > > Nico Holland
> > >
> > >
> > Nico, it seems to me that you need to do the pre-setting procedure
> > described in the manual at least for the CW mode and maybe the other
> > modes as well. You need to open the top to get at the DIP switch on the
> > back of the front panel board and follow the manual procedure. This sets
> > the default settings for bandwidth, AGC and BFO, where appropriate for
> > each mode.
> >
> > With any luck this should work. If not, you may have a faulty EAROM.
> >
> > 73 - Dan

> >
>

2116. RA6790 S-Meter

Yahoo group: Racal6790GM
Date: 2013-03-17 02:21:37 UTC
From: reece_k1
Topic: 2116 Message: 2116

I have an IC-R75 that I compared the Racal to mainly due to the fact that I can't get a good strong signal.
I setup both radios to the same frequency, USB, bandwidth etc and discovered that the Icom signal is around 9 to 10 units whilst the Racal showed between 0 and 2. I tried the Racal varying the AGC on Manual and Auto settings but no change, the signal/sound on the Racal is better than the Icom so I conclude that the Racal S-Meter is possibly just lazy.
Any advise to adjust this. . . or not? is greatly appreciated.

I do not have access to decent test tools, only a logic probe, multimeter with built in frequency meter, and an old 1Mhz CRO (BWD 509B).

BTW, I live in the country of South Australia so not really anyone I can take this to.

2117. Re: [Racal6790GM] RA6790 S-Meter

Yahoo group: Racal6790GM
Date: 2013-03-17 02:40:01 UTC
From: gewingerd@netzero.com
Topic: 2116 Message: 2117
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2118. Re: [Racal6790GM] RA6790 S-Meter

Yahoo group: Racal6790GM
Date: 2013-03-17 02:54:54 UTC
From: Dan Rae
Topic: 2116 Message: 2118

Reece, it's not an S-meter in the Amateur sense. It is a signal strength meter and in a well aligned GM each blob represents a 10 dB increase over 1 ?V, fairly accurately. I leave that to you to work out what the equivalent of S9 is, four or five blobs I suspect.

If you don't have at least a good signal generator with a calibrated attenuator, I would leave well alone...

73 - Dan

2119. Re: RA6790 S-Meter

Yahoo group: Racal6790GM
Date: 2013-03-17 03:46:21 UTC
From: reece_k1
Topic: 2116 Message: 2119

Hi Dan, yes I might have to save some pennies for a good Signal Generator, with Chinese products/competition they shouldn't cost too much nowadays, I will look around. Any other equipment required?

Reece.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> Reece, it's not an S-meter in the Amateur sense. It is a signal
> strength meter and in a well aligned GM each blob represents a 10 dB
> increase over 1 µV, fairly accurately. I leave that to you to work out
> what the equivalent of S9 is, four or five blobs I suspect.
>
> If you don't have at least a good signal generator with a calibrated
> attenuator, I would leave well alone...
>
> 73 - Dan
>

2120. Re: RA6790 S-Meter

Yahoo group: Racal6790GM
Date: 2013-03-17 03:49:00 UTC
From: reece_k1
Topic: 2116 Message: 2120

Thanks Gary I will peruse through the doc file to see if I can do it!!

Reece.

--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Try the alignment on the A4 card.
>
> Please note: message attached
>
> From: "reece_k1" <reece_k1@...>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] RA6790 S-Meter
> Date: Sun, 17 Mar 2013 02:21:37 -0000
>
>
>
> I have an IC-R75 that I compared the Racal to mainly due to the fact that I can't get a good strong signal.
> I setup both radios to the same frequency, USB, bandwidth etc and discovered that the Icom signal is around 9 to 10 units whilst the Racal showed between 0 and 2. I tried the Racal varying the AGC on Manual and Auto settings but no change, the signal/sound on the Racal is better than the Icom so I conclude that the Racal S-Meter is possibly just lazy.
> Any advise to adjust this. . . or not? is greatly appreciated.
>
> I do not have access to decent test tools, only a logic probe, multimeter with built in frequency meter, and an old 1Mhz CRO (BWD 509B).
>
> BTW, I live in the country of South Australia so not really anyone I can take this to.
>

2121. Re: RA6790 S-Meter

Yahoo group: Racal6790GM
Date: 2013-03-17 03:53:29 UTC
From: reece_k1
Topic: 2116 Message: 2121

Well I will have to give that a miss, a SPECTRUM ANALYZER I do not have and they are not cheap!!
Thanks though.
Reece.

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
> Thanks Gary I will peruse through the doc file to see if I can do it!!
>
> Reece.
>
> --- In Racal6790GM@yahoogroups.com, "gewingerd@" <gewingerd@> wrote:
> >
> > Try the alignment on the A4 card.
> >
> > Please note: message attached
> >
> > From: "reece_k1" <reece_k1@>
> > To: Racal6790GM@yahoogroups.com
> > Subject: [Racal6790GM] RA6790 S-Meter
> > Date: Sun, 17 Mar 2013 02:21:37 -0000
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> > I have an IC-R75 that I compared the Racal to mainly due to the fact that I can't get a good strong signal.
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>

2122. Re: [Racal6790GM] Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-17 09:02:34 UTC
From: noel.lipscombe
Topic: 2116 Message: 2122

Hi Reece,

I have finally obtained a circular plug and made up a cable to use with the control software you suggested but the receiver does not recognise 37 as its address when the cable & plug are wired in accord wit Gary's sheet.

I have carefully checked it all out but as my computer is running Win 7 I don't have a terminal program to test the actual connection.

Do you know a simple way of getting round this as its possible that the A6A1 card has a fault. I have also made sure its proper links are in place.

The card voltages are OK and the X'tal is running on frequency but because of its position its difficult to look at logic levels even if I knew what they were supposed to be.

Do you, or others, have any advice that might help.

Thanks,
Noel

From: reece_k1
Sent: Sunday, March 17, 2013 2:53 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: RA6790 S-Meter

Well I will have to give that a miss, a SPECTRUM ANALYZER I do not have and they are not cheap!!
Thanks though.
Reece.

--- In mailto:Racal6790GM%40yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
> Thanks Gary I will peruse through the doc file to see if I can do it!!
>
> Reece.
>
> --- In mailto:Racal6790GM%40yahoogroups.com, "gewingerd@" <gewingerd@> wrote:
> >
> > Try the alignment on the A4 card.
> >
> > Please note: message attached
> >
> > From: "reece_k1" <reece_k1@>
> > To: mailto:Racal6790GM%40yahoogroups.com
> > Subject: [Racal6790GM] RA6790 S-Meter
> > Date: Sun, 17 Mar 2013 02:21:37 -0000
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> >
> >
> > I have an IC-R75 that I compared the Racal to mainly due to the fact that I can't get a good strong signal.
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> >
>

2123. Re: Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-17 10:22:52 UTC
From: reece_k1
Topic: 2116 Message: 2123

Hi Noel, I can't remember what was said now!! Concerning the large plug check the following:
Pins N, S, T are connected to C (Gnd), this gives 37Hex Receiver ID.
C to DB9 Pin 5
B to DB9 pin 2, F to DB9 pin 3
J to H
All other pins are left open (not used)

Make sure the following links on A6A1 are done:
Links-
1 - Closed
2 - Open
3 - Closed
4 - Closed
5 - Closed
6 - Open

On the A6A2 board Link 1 is Open.

The baud rate of PC should be 19200, no parity.

I assume you are entering your serial number?
What sort of Com port is being used? Some of the USB Serial converters just don't work.

You may have to show some pics of the A6A2 board.

Reece.

--- In Racal6790GM@yahoogroups.com, "noel.lipscombe" <noel.lipscombe@...> wrote:
>
> Hi Reece,
>
> I have finally obtained a circular plug and made up a cable to use with the control software you suggested but the receiver does not recognise 37 as its address when the cable & plug are wired in accord wit Garyâ□□s sheet.
>
> I have carefully checked it all out but as my computer is running Win 7 I donâ□□t have a terminal program to test the actual connection.
>
> Do you know a simple way of getting round this as its possible that the A6A1 card has a fault. I have also made sure its proper links are in place.
>
> The card voltages are OK and the Xâ□□tal is running on frequency but because of its position its difficult to look at logic levels even if I knew what they were supposed to be.
>
> Do you, or others, have any advice that might help.
>

> Thanks,
> Noel
>
>
>
> From: reece_k1
> Sent: Sunday, March 17, 2013 2:53 PM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Re: RA6790 S-Meter
>
>
> Well I will have to give that a miss, a SPECTRUM ANALYZER I do not have and they are not cheap!!
> Thanks though.
> Reece.
>
> --- In mailto:Racal6790GM%40yahoogroups.com, "reece_k1" <reece_k1@> wrote:
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> > Reece.
> >
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> > > Subject: [Racal6790GM] RA6790 S-Meter
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> > >
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> >
>

2124. Re: [Racal6790GM] Re: Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-17 11:07:30 UTC
From: noel.lipscombe
Topic: 2116 Message: 2124

Thanks Reese,

All that checks with what I have done.

The serial number I am entering in the program is the one on the front panel but the A6A2 board is not the one from the original receiver.

I bought a new one from Phill at A6A2 with the extended LF coverage Eproms. Is the Rx serial number significant to the program?

Noel

From: reece_k1
Sent: Sunday, March 17, 2013 9:22 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Remote operation

Hi Noel, I can't remember what was said now!! Concerning the large plug check the following:
Pins N, S, T are connected to C (Gnd), this gives 37Hex Receiver ID.
C to DB9 Pin 5
B to DB9 pin 2, F to DB9 pin 3
J to H
All other pins are left open (not used)

Make sure the following links on A6A1 are done:
Links-
1 - Closed
2 - Open
3 - Closed
4 - Closed
5 - Closed
6 - Open

On the A6A2 board Link 1 is Open.

The baud rate of PC should be 19200, no parity.

I assume you are entering your serial number?
What sort of Com port is being used? Some of the USB Serial converters just don't work.

You may have to show some pics of the A6A2 board.

Reece.

--- In mailto:Racal6790GM%40yahoogroups.com, "noel.lipscombe" <noel.lipscombe@...> wrote:
>
> Hi Reece,

>
> I have finally obtained a circular plug and made up a cable to use with the control software you suggested but the receiver does not recognise 37 as its address when the cable & plug are wired in accord wit Garyâ□□s sheet.
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> I have carefully checked it all out but as my computer is running Win 7 I donâ□□t have a terminal program to test the actual connection.
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> Do you know a simple way of getting round this as its possible that the A6A1 card has a fault. I have also made sure its proper links are in place.
>
> The card voltages are OK and the Xâ□□tal is running on frequency but because of its position its difficult to look at logic levels even if I knew what they were supposed to be.
>
> Do you, or others, have any advice that might help.
>
> Thanks,
> Noel
>
>
>
> From: reece_k1
> Sent: Sunday, March 17, 2013 2:53 PM
> To: mailto:Racal6790GM%40yahoogroups.com
> Subject: [Racal6790GM] Re: RA6790 S-Meter
>
>
> Well I will have to give that a miss, a SPECTRUM ANALYZER I do not have and they are not cheap!!
> Thanks though.
> Reece.
>
> --- In mailto:Racal6790GM%40yahoogroups.com, "reece_k1" <reece_k1@> wrote:
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> > Thanks Gary I will peruse through the doc file to see if I can do it!!
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> > Reece.
> >
> > --- In mailto:Racal6790GM%40yahoogroups.com, "gewingerd@" <gewingerd@> wrote:
> > >
> > > Try the alignment on the A4 card.
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> > > Please note: message attached
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> > > From: "reece_k1" <reece_k1@>
> > > To: mailto:Racal6790GM%40yahoogroups.com
> > > Subject: [Racal6790GM] RA6790 S-Meter
> > > Date: Sun, 17 Mar 2013 02:21:37 -0000
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> > > I do not have access to decent test tools, only a logic probe, multimeter with built in frequency meter, and an old 1Mhz CRO (BWD 509B).
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> > > BTW, I live in the country of South Australia so not really anyone I can take this to.
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> >
>

2125. Re: Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-17 11:51:30 UTC
From: reece_k1
Topic: 2116 Message: 2125

The serial number is needed for the program to run, I'd say any 4 digit number starting with 5 would work.
Did you query Phill about links etc? I am not familiar with that board.
Did you try reversing pins 2 and 3 of the DB9 connector?
The PC com port is it part of the motherboard?
Also I was using a serial port that had a Radiocom dongle and connecting through this failed. (getting desperate now!!)
I'll think about this further!!

Reece.

--- In Racal6790GM@yahoogroups.com, "noel.lipscombe" <noel.lipscombe@...> wrote:
>
> Thanks Reese,
>
> All that checks with what I have done.
>
> The serial number I am entering in the program is the one on the front panel but the A6A2 board is not the one from the original receiver.
>
> I bought a new one from Phill at A6A2 with the extended LF coverage Eproms. Is the Rx serial number significant to the program?
>
> Noel
>
> From: reece_k1
> Sent: Sunday, March 17, 2013 9:22 PM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Re: Remote operation
>
>
> Hi Noel, I can't remember what was said now!! Concerning the large plug check the following:
> Pins N, S, T are connected to C (Gnd), this gives 37Hex Receiver ID.
> C to DB9 Pin 5
> B to DB9 pin 2, F to DB9 pin 3
> J to H
> All other pins are left open (not used)
>
> Make sure the following links on A6A1 are done:
> Links-
> 1 - Closed
> 2 - Open
> 3 - Closed
> 4 - Closed
> 5 - Closed

> 6 - Open
>
> On the A6A2 board Link 1 is Open.
>
> The baud rate of PC should be 19200, no parity.
>
> I assume you are entering your serial number?
> What sort of Com port is being used? Some of the USB Serial converters just don't work.
>
> You may have to show some pics of the A6A2 board.
>
> Reece.
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> --- In mailto:Racal6790GM%40yahoogroups.com, "noel.lipscombe" <noel.lipscombe@> wrote:
> >
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> > Do you know a simple way of getting round this as its possible that the A6A1 card has a fault. I have also made sure its proper links are in place.
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> > The card voltages are OK and the XÃ¢Â□Â□tal is running on frequency but because of its position its difficult to look at logic levels even if I knew what they were supposed to be.
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> > Do you, or others, have any advice that might help.
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> >
> > From: reece_k1
> > Sent: Sunday, March 17, 2013 2:53 PM
> > To: mailto:Racal6790GM%40yahoogroups.com
> > Subject: [Racal6790GM] Re: RA6790 S-Meter
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> >
> > Well I will have to give that a miss, a SPECTRUM ANALYZER I do not have and they are not cheap!!
> > Thanks though.
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> > > > Try the alignment on the A4 card.
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> > > > To: mailto:Racal6790GM%40yahoogroups.com
> > > > Subject: [Racal6790GM] RA6790 S-Meter
> > > > Date: Sun, 17 Mar 2013 02:21:37 -0000
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>

2126. Re: Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-17 11:54:45 UTC
From: reece_k1
Topic: 2116 Message: 2126

Not sure if this is required but did you run a BITE test after installing the A6A2 board?

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
> The serial number is needed for the program to run, I'd say any 4 digit number starting with 5 would work.
> Did you query Phill about links etc? I am not familiar with that board.
> Did you try reversing pins 2 and 3 of the DB9 connector?
> The PC com port is it part of the motherboard?
> Also I was using a serial port that had a Radiocom dongle and connecting through this failed. (getting desperate now!!)
> I'll think about this further!!
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> Reece.
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> --- In Racal6790GM@yahoogroups.com, "noel.lipscombe" <noel.lipscombe@> wrote:
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> > All that checks with what I have done.
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> > I bought a new one from Phill at A6A2 with the extended LF coverage Eproms. Is the Rx serial number significant to the program?
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> > Noel
> >
> > From: reece_k1
> > Sent: Sunday, March 17, 2013 9:22 PM
> > To: Racal6790GM@yahoogroups.com
> > Subject: [Racal6790GM] Re: Remote operation
> >
> >
> > Hi Noel, I can't remember what was said now!! Concerning the large plug check the following:
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> > C to DB9 Pin 5
> > B to DB9 pin 2, F to DB9 pin 3
> > J to H
> > All other pins are left open (not used)
> >
> > Make sure the following links on A6A1 are done:
> > Links-

> > 1 - Closed
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> > 5 - Closed
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> > On the A6A2 board Link 1 is Open.
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> > The baud rate of PC should be 19200, no parity.
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> > I assume you are entering your serial number?
> > What sort of Com port is being used? Some of the USB Serial converters just don't work.
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> > Reece.
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> > > The card voltages are OK and the XÃ¢Â□Â□tal is running on frequency but because of its position its difficult to look at logic levels even if I knew what they were supposed to be.
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> > > Do you, or others, have any advice that might help.
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> > > Thanks,
> > > Noel
> > >
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> > > From: reece_k1
> > > Sent: Sunday, March 17, 2013 2:53 PM
> > > To: mailto:Racal6790GM%40yahoogroups.com
> > > Subject: [Racal6790GM] Re: RA6790 S-Meter
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> > > Well I will have to give that a miss, a SPECTRUM ANALYZER I do not have and they are not cheap!!
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> > > > Thanks Gary I will peruse through the doc file to see if I can do it!!
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> > > > > Subject: [Racal6790GM] RA6790 S-Meter
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> >
>

2127. Re: Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-18 20:06:50 UTC
From: noel.lipscombe
Topic: 2116 Message: 2127

Hi Reece, The serial port is on the mother board and I have run bite successfully several times. Have also tried swapping pins 2 & 3 on the DB9.

I'm beginning to think the program hasn't installed correctly under Win 7 as I uninstalled it and when I re-installed it I got an error message that it wasn't able to register DAO350.dll.

I tried installing it on an old laptop running Win XP which worked fine but the laptop doesn't have a serial connector so am stuck in the middle.

Have you tried using the program under Win 7? there may be a work round I can find.

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2128. Re: Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-18 22:22:55 UTC
From: reece_k1
Topic: 2116 Message: 2128

Hi, sorry no I have 2 computers both on XP, eventually I will upgrade to Win7 Pro 64 but a way off yet!!
Hopefully someone else here has it going on 7, I assume you Googled for that?
If I think of anything I will let you know.
Best of luck,
Reece.

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2129. Re: Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-18 23:22:53 UTC
From: reece_k1
Topic: 2116 Message: 2129

Hi, I just found that this particular usb to serial adapter works on an XP, it does on mine, I have a few and this is the only one that works.

Reece.

http://www.ebay.com.au/itm/USB-to-Serial-Adapter-RS232-DB9-FTDI-PALM-GPS-fr3-/110529608698?pt=FR_Informatique_Reseaux_Autres&hash=item19bc13fbfa

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2130. Re: Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-25 11:38:05 UTC
From: noel.lipscombe
Topic: 2116 Message: 2130

Hi Reece, Since my last post I found another laptop running Win XP which has a Com 1 port built in.
I loaded the software successfully but it will not recognise the $37S2 command. This version of Win XP has HyperTerminal included which lets me do a loop back test which confirms the cable is OK.
I have also contacted Phill (a6a2) who also made some suggestions including the use of an extension cable to lay the A6A2 & A6A1 boards along side the Rx for fault finding as it seems that my card has a problem.
I'm working on that now and will let you know what the problem is when(or if)I find it.Cheers for now, Noel

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> > > > > > Sent: Sunday, March 17, 2013 9:22 PM
> > > > > > To: Racal6790GM@yahoogroups.com
> > > > > > Subject: [Racal6790GM] Re: Remote operation
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2131. Re: Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-25 23:37:32 UTC
From: reece_k1
Topic: 2116 Message: 2131

Hi Noel, best of luck, seems you're not alone on this:
http://www.qth.net/pipermail/premium-rx/2004q1/001587.html

Regards,
Reece

--- In Racal6790GM@yahoogroups.com, "noel.lipscombe" <noel.lipscombe@...> wrote:
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2132. RE: [Racal6790GM] Re: Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-26 01:44:23 UTC
From: Thomas Frobase
Topic: 2116 Message: 2132
Attachments: 2 described; binary payloads are missing from this source WARC

I am a bit late to the game here, did you make sure the necessary links are correct for the serial board as far as baud rate and parity?

Also as I recall link 1 on the CPU board must be removed for the serial card to function at all … tom, N3LLL

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of reece_k1
Sent: Monday, March 25, 2013 6:38 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Remote operation

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http://www.qth.net/pipermail/premium-rx/2004q1/001587.html

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> > > > > > > > >
> > > > > > > > >
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> > > > > > > > > > To: mailto:Racal6790GM%40yahoogroups.com
> > > > > > > > > > Subject: [Racal6790GM] RA6790 S-Meter
> > > > > > > > > > Date: Sun, 17 Mar 2013 02:21:37 -0000
> > > > > > > > > >
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> > > > > > > > > > I do not have access to decent test tools, only a logic probe, multimeter with built in frequency meter, and an old 1Mhz CRO (BWD 509B).
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2133. RE: [Racal6790GM] Re: Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-26 02:24:55 UTC
From: Tom Frobase
Topic: 2116 Message: 2133
Attachments: 3 described; binary payloads are missing from this source WARC

I am a bit late to the game here, did you make sure the necessary links are correct for the serial board?****

** **

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] *On Behalf Of *reece_k1
Sent: Monday, March 25, 2013 6:38 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Remote operation****

** **

****

Hi Noel, best of luck, seems you're not alone on this:
http://www.qth.net/pipermail/premium-rx/2004q1/001587.html

Regards,
Reece

--- In Racal6790GM@yahoogroups.com, "noel.lipscombe" <noel.lipscombe@...> wrote:
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> Hi Reece, Since my last post I found another laptop running Win XP which has a Com 1 port built in.
> I loaded the software successfully but it will not recognise the $37S2 command. This version of Win XP has HyperTerminal included which lets me do a loop back test which confirms the cable is OK.
> I have also contacted Phill (a6a2) who also made some suggestions including the use of an extension cable to lay the A6A2 & A6A1 boards along side the Rx for fault finding as it seems that my card has a problem.
> I'm working on that now and will let you know what the problem is when(or if)I find it.Cheers for now, Noel
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> > > Hopefully someone else here has it going on 7, I assume you Googled for that?
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> > > Best of luck,
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> > > > I'm beginning to think the program hasn't installed correctly under Win 7 as I uninstalled it and when I re-installed it I got an error message that it wasn't able to register DAO350.dll.
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> > > > I tried installing it on an old laptop running Win XP which worked fine but the laptop doesn't have a serial connector so am stuck in the middle.
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> > > > Have you tried using the program under Win 7? there may be a work round I can find.
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> > > > Thanks Noel
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> > > > > > The serial number is needed for the program to run, I'd say any 4 digit number starting with 5 would work.
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> > > > > > Did you try reversing pins 2 and 3 of the DB9 connector?
> > > > > > The PC com port is it part of the motherboard?
> > > > > > Also I was using a serial port that had a Radiocom dongle and connecting through this failed. (getting desperate now!!)
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receiver.
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> > > > > > > I bought a new one from Phill at A6A2 with the extended LF
coverage Eproms. Is the Rx serial number significant to the program?
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> > > > > > > From: reece_k1
> > > > > > > Sent: Sunday, March 17, 2013 9:22 PM
> > > > > > > To: Racal6790GM@yahoogroups.com
> > > > > > > Subject: [Racal6790GM] Re: Remote operation
> > > > > > > >
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> > > > > > > Hi Noel, I can't remember what was said now!! Concerning the
large plug check the following:
> > > > > > > Pins N, S, T are connected to C (Gnd), this gives 37Hex
Receiver ID.
> > > > > > > C to DB9 Pin 5
> > > > > > > B to DB9 pin 2, F to DB9 pin 3
> > > > > > > J to H
> > > > > > > All other pins are left open (not used)
> > > > > > > >
> > > > > > > Make sure the following links on A6A1 are done:
> > > > > > > Links-
> > > > > > > 1 - Closed
> > > > > > > 2 - Open
> > > > > > > 3 - Closed
> > > > > > > 4 - Closed
> > > > > > > 5 - Closed
> > > > > > > 6 - Open
> > > > > > > >
> > > > > > > On the A6A2 board Link 1 is Open.
> > > > > > > >
> > > > > > > The baud rate of PC should be 19200, no parity.
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> > > > > > > I assume you are entering your serial number?
> > > > > > > What sort of Com port is being used? Some of the USB Serial
converters just don't work.

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> > > > > > > > > I have carefully checked it all out but as my computer is
running Win 7 I donÃ¢Â€Â™t have a terminal program to test the actual
connection.
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> > > > > > > > > Do you know a simple way of getting round this as its
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> > > > > > > > > The card voltages are OK and the XÃ¢Â€Â™tal is running on
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even if I knew what they were supposed to be.
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> > > > > > > > > Do you, or others, have any advice that might help.
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> > > > > > > > > To: mailto:Racal6790GM%40yahoogroups.com
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2134. Re: [Racal6790GM] Re: Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-26 10:49:07 UTC
From: noel.lipscombe
Topic: 2116 Message: 2134

Thanks for your interest Tom, Yes I have made sure all the links are set correctly including the one on the A6A2 board.
No matter what I try the Rx will not respond to the $37S2 command so at this stage I suspect a hardware fault on the A6A1 board. Noel

From: Tom Frobase
Sent: Tuesday, March 26, 2013 1:24 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] Re: Remote operation

I am a bit late to the game here, did you make sure the necessary links are correct for the serial board?

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of reece_k1
Sent: Monday, March 25, 2013 6:38 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Remote operation

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http://www.qth.net/pipermail/premium-rx/2004q1/001587.html

Regards,
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2135. Re: [Racal6790GM] Re: Remote operation

Yahoo group: Racal6790GM
Date: 2013-03-26 10:54:42 UTC
From: noel.lipscombe
Topic: 2116 Message: 2135

Yes Reece, it seems a well beaten path but I'll battle on !!, Cheers, Noel

From: reece_k1
Sent: Tuesday, March 26, 2013 10:37 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Remote operation

Hi Noel, best of luck, seems you're not alone on this:
http://www.qth.net/pipermail/premium-rx/2004q1/001587.html

Regards,
Reece

--- In mailto:Racal6790GM%40yahoogroups.com, "noel.lipscombe" <noel.lipscombe@...> wrote:
>
> Hi Reece, Since my last post I found another laptop running Win XP which has a Com 1 port built in.
> I loaded the software successfully but it will not recognise the $37S2 command. This version of Win XP has HyperTerminal included which lets me do a loop back test which confirms the cable is OK.
> I have also contacted Phill (a6a2) who also made some suggestions including the use of an extension cable to lay the A6A2 & A6A1 boards along side the Rx for fault finding as it seems that my card has a problem.
> I'm working on that now and will let you know what the problem is when(or if)I find it.Cheers for now, Noel
>
> --- In mailto:Racal6790GM%40yahoogroups.com, "reece_k1" <reece_k1@> wrote:
> >
> >
> >
> >
> > Hi, I just found that this particular usb to serial adapter works on an XP, it does on mine, I have a few and this is the only one that works.
> >
> > Reece.
> >
> > http://www.ebay.com.au/itm/USB-to-Serial-Adapter-RS232-DB9-FTDI-PALM-GPS-fr3-/110529608698?pt=FR_Informatique_Reseaux_Autres&hash=item19bc13fbfa
> >
> > --- In mailto:Racal6790GM%40yahoogroups.com, "reece_k1" <reece_k1@> wrote:
> > >
> > > Hi, sorry no I have 2 computers both on XP, eventually I will upgrade to Win7 Pro 64 but a way off yet!!
> > > Hopefully someone else here has it going on 7, I assume you Googled for that?
> > > If I think of anything I will let you know.
> > > Best of luck,
> > > Reece.
> > >
> > > --- In mailto:Racal6790GM%40yahoogroups.com, "noel.lipscombe" <noel.lipscombe@> wrote:
> > > >

> > > > Hi Reece, The serial port is on the mother board and I have run bite successfully several times. Have also tried swapping pins 2 & 3 on the DB9.
> > > >
> > > > I'm beginning to think the program hasn't installed correctly under Win 7 as I uninstalled it and when I re-installed it I got an error message that it wasn't able to register DAO350.dll.
> > > >
> > > > I tried installing it on an old laptop running Win XP which worked fine but the laptop doesn't have a serial connector so am stuck in the middle.
> > > >
> > > > Have you tried using the program under Win 7? there may be a work round I can find.
> > > >
> > > > Thanks Noel
> > > >
> > > > --- In mailto:Racal6790GM%40yahoogroups.com, "reece_k1" <reece_k1@> wrote:
> > > > >
> > > > > Not sure if this is required but did you run a BITE test after installing the A6A2 board?
> > > > >
> > > > > --- In mailto:Racal6790GM%40yahoogroups.com, "reece_k1" <reece_k1@> wrote:
> > > > > >
> > > > > > The serial number is needed for the program to run, I'd say any 4 digit number starting with 5 would work.
> > > > > > Did you query Phill about links etc? I am not familiar with that board.
> > > > > > Did you try reversing pins 2 and 3 of the DB9 connector?
> > > > > > The PC com port is it part of the motherboard?
> > > > > > Also I was using a serial port that had a Radiocom dongle and connecting through this failed. (getting desperate now!!)
> > > > > > I'll think about this further!!
> > > > > >
> > > > > > Reece.
> > > > > >
> > > > > >
> > > > > > --- In mailto:Racal6790GM%40yahoogroups.com, "noel.lipscombe" <noel.lipscombe@> wrote:
> > > > > > >
> > > > > > > Thanks Reese,
> > > > > > >
> > > > > > > All that checks with what I have done.
> > > > > > >
> > > > > > > The serial number I am entering in the program is the one on the front panel but the A6A2 board is not the one from the original receiver.
> > > > > > >
> > > > > > > I bought a new one from Phill at A6A2 with the extended LF coverage Eproms. Is the Rx serial number significant to the program?
> > > > > > >
> > > > > > > Noel
> > > > > > >
> > > > > > > From: reece_k1
> > > > > > > Sent: Sunday, March 17, 2013 9:22 PM
> > > > > > > To: mailto:Racal6790GM%40yahoogroups.com
> > > > > > > Subject: [Racal6790GM] Re: Remote operation
> > > > > > >

> > > > > > >
> > > > > > > > Hi Noel, I can't remember what was said now!! Concerning the large plug check the following:
> > > > > > > > Pins N, S, T are connected to C (Gnd), this gives 37Hex Receiver ID.
> > > > > > > > C to DB9 Pin 5
> > > > > > > > B to DB9 pin 2, F to DB9 pin 3
> > > > > > > > J to H
> > > > > > > > All other pins are left open (not used)
> > > > > > > >
> > > > > > > > Make sure the following links on A6A1 are done:
> > > > > > > > Links-
> > > > > > > > 1 - Closed
> > > > > > > > 2 - Open
> > > > > > > > 3 - Closed
> > > > > > > > 4 - Closed
> > > > > > > > 5 - Closed
> > > > > > > > 6 - Open
> > > > > > > >
> > > > > > > > On the A6A2 board Link 1 is Open.
> > > > > > > >
> > > > > > > > The baud rate of PC should be 19200, no parity.
> > > > > > > >
> > > > > > > > I assume you are entering your serial number?
> > > > > > > > What sort of Com port is being used? Some of the USB Serial converters just don't work.
> > > > > > > >
> > > > > > > > You may have to show some pics of the A6A2 board.
> > > > > > > >
> > > > > > > > Reece.
> > > > > > > >
> > > > > > > > --- In mailto:Racal6790GM%40yahoogroups.com, "noel.lipscombe" <noel.lipscombe@> wrote:
> > > > > > > > >
> > > > > > > > > Hi Reece,
> > > > > > > > >
> > > > > > > > > I have finally obtained a circular plug and made up a cable to use with the control software you suggested but the receiver does not recognise 37 as its address when the cable & plug are wired in accord wit GaryÃ¢Â□Â□s sheet.
> > > > > > > > >
> > > > > > > > > I have carefully checked it all out but as my computer is running Win 7 I donÃ¢Â□Â□t have a terminal program to test the actual connection.
> > > > > > > > >
> > > > > > > > > Do you know a simple way of getting round this as its possible that the A6A1 card has a fault. I have also made sure its proper links are in place.
> > > > > > > > >
> > > > > > > > > The card voltages are OK and the XÃ¢Â□Â□tal is running on frequency but because of its position its difficult to look at logic levels even if I knew what they were supposed to be.
> > > > > > > > >
> > > > > > > > > Do you, or others, have any advice that might help.
> > > > > > > > >
> > > > > > > > > Thanks,
> > > > > > > > > Noel

> > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > > > From: reece_k1
> > > > > > > > Sent: Sunday, March 17, 2013 2:53 PM
> > > > > > > > To: mailto:Racal6790GM%40yahoogroups.com
> > > > > > > > Subject: [Racal6790GM] Re: RA6790 S-Meter
> > > > > > > >
> > > > > > > >
> > > > > > > > Well I will have to give that a miss, a SPECTRUM ANALYZER I do not have and they are not cheap!!
> > > > > > > > Thanks though.
> > > > > > > > Reece.
> > > > > > > >
> > > > > > > > --- In mailto:Racal6790GM%40yahoogroups.com, "reece_k1" <reece_k1@> wrote:
> > > > > > > >
> > > > > > > > Thanks Gary I will peruse through the doc file to see if I can do it!!
> > > > > > > >
> > > > > > > > Reece.
> > > > > > > >
> > > > > > > > --- In mailto:Racal6790GM%40yahoogroups.com, "gewingerd@" <gewingerd@> wrote:
> > > > > > > >
> > > > > > > > Try the alignment on the A4 card.
> > > > > > > >
> > > > > > > > Please note: message attached
> > > > > > > >
> > > > > > > > From: "reece_k1" <reece_k1@>
> > > > > > > > To: mailto:Racal6790GM%40yahoogroups.com
> > > > > > > > Subject: [Racal6790GM] RA6790 S-Meter
> > > > > > > > Date: Sun, 17 Mar 2013 02:21:37 -0000
> > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > > > I have an IC-R75 that I compared the Racal to mainly due to the fact that I can't get a good strong signal.
> > > > > > > > I setup both radios to the same frequency, USB, bandwidth etc and discovered that the Icom signal is around 9 to 10 units whilst the Racal showed between 0 and 2. I tried the Racal varying the AGC on Manual and Auto settings but no change, the signal/sound on the Racal is better than the Icom so I conclude that the Racal S-Meter is possibly just lazy.
> > > > > > > > Any advise to adjust this. . . or not? is greatly appreciated.
> > > > > > > >
> > > > > > > > I do not have access to decent test tools, only a logic probe, multimeter with built in frequency meter, and an old 1Mhz CRO (BWD 509B).
> > > > > > > >
> > > > > > > > BTW, I live in the country of South Australia so not really anyone I can take this to.
> > > > > > > >
> > > > > > > >
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> > > > >

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> > > >
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> >
>

2136. My RA6790 upgrade

Yahoo group: Racal6790GM
Date: 2013-03-27 10:50:07 UTC
From: reece_k1
Topic: 2136 Message: 2136

First off I would like to thank many members here for their help and support in completing this project.

What started off as a very basic stock radio has turned into a very nice radio that looks good, sounds great and performs well.

In detail:

I changed the stock mono headphone jack for a stereo, now both sides of my headphones work!!
Since this radio does not have the ISB installed (don't really have a use for it) I cut an aluminum plate and fitted in the ISB position with a small 10w speaker box and a 10w amp mounted to it, this has internal control to set up volume, bass & treble (even with the box lid on sounds great), the headphone jack when used will cut this out. I made it such that if I want I can easily revert to original, no holes drilled in the radio chassis.
http://i66.photobucket.com/albums/h244/Reecehk/DRA6790-2_zpse4e86f1f.jpg

I have replaced the electrolytics on the A4 board with new ones (not NOS), replaced the battery backup (VARTA).The A6A2 EPROMS have been replaced mainly for the 10Hz step.
Although the display LCD's were ok they were a bit light on so I purchased a new set, much crisper darker image. I have replaced the old globes with German micro super bright LED's, there is a total of 25 on the top alone.
http://i66.photobucket.com/albums/h244/Reecehk/DRA6790-4_zps5bd13e1c.jpg

One thing that really turned into a nightmare was the tuning dial, I purchased 4 online that were originally meant for Watkins Johnson radios, turned out they all are off center so that when turning/spinning the dial it moves up and down, only about a mm but enough to annoy me.
I decided I would like a nice weighted one from an old Icom IC-720A but now the shaft is too short!! so I manufactured one and discovered that the knob shaft diameter is smaller than 1/4" so I had to plane that down, works beautifully, smooth and dead center. Another thing that worked out well by chance is the dial markings, they are exactly 5Khz for each large division when using the fast step mode.
On the rear panel I have replaced the antenna socket for a SO-239/BNC panel mount socket, mounted a DB9 serial connector. Also I made a small DB25/backshell with original speaker out socket (not effected by headphone plug) and a level controlled line out that is independent of the radio's volume control.
http://i66.photobucket.com/albums/h244/Reecehk/DRA6790-1_zps888e3e6d.jpg

Finally a new case, this was a little pricey but looks a treat!!! also rear rubber feet and HP Agilent feet, the radio weighs a proverbial ton so strong feet were needed.

http://i66.photobucket.com/albums/h244/Reecehk/DRA6790-3_zpsb8263866.jpg
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http://i66.photobucket.com/albums/h244/Reecehk/DRA6790-6_zpsd9615637.jpg

Thanks to All,
Reece.

2137. Re: [Racal6790GM] My RA6790 upgrade

Yahoo group: Racal6790GM
Date: 2013-03-27 14:18:59 UTC
From: casy_ch@tbwil.ch
Topic: 2136 Message: 2137

Congratulation for the nice modifications! Very handy what you did.

Rgds
Jean-Claude, HB3YDH

Am 27.03.2013 11:50, schrieb reece_k1:
>
> First off I would like to thank many members here for their help and
> support in completing this project.
>
> What started off as a very basic stock radio has turned into a very
> nice radio that looks good, sounds great and performs well.
>
> In detail:
>
> I changed the stock mono headphone jack for a stereo, now both sides
> of my headphones work!!
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> with a small 10w speaker box and a 10w amp mounted to it, this has
> internal control to set up volume, bass & treble (even with the box
> lid on sounds great), the headphone jack when used will cut this out.
> I made it such that if I want I can easily revert to original, no
> holes drilled in the radio chassis.
> http://i66.photobucket.com/albums/h244/Reecehk/DRA6790-2_zpse4e86f1f.jpg
>
> I have replaced the electrolytics on the A4 board with new ones (not
> NOS), replaced the battery backup (VARTA).The A6A2 EPROMS have been
> replaced mainly for the 10Hz step.
> Although the display LCD's were ok they were a bit light on so I
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>
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>
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>
> Thanks to All,
> Reece.
>
>

2138. Re: [Racal6790GM] My RA6790 upgrade

Yahoo group: Racal6790GM
Date: 2013-03-27 20:11:14 UTC
From: noel.lipscombe
Topic: 2136 Message: 2138

Reece, You have done a great customising job. One point that intrigues me is that all the 6790 GM's that I have seen have rack mounting slots on the front panel, yours looks to have just holes. How did you manage it? Noel

From: reece_k1
Sent: Wednesday, March 27, 2013 9:50 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] My RA6790 upgrade

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Thanks to All,
Reece.

2139. Re: [Racal6790GM] My RA6790 upgrade

Yahoo group: Racal6790GM
Date: 2013-03-27 22:38:46 UTC
From: casy_ch@tbwil.ch
Topic: 2136 Message: 2139

Hi No?l

To my knowledge they have not got slots. E.g. my RA-6793 (RA-6790 with keys) and my RA-1792 have both got holes too only. The single one having slots here is the RA-3712.

Jean-Claude

Am 27.03.2013 21:11, schrieb noel.lipscombe:
> Reece, You have done a great customising job. One point that intrigues me is that all the 6790 GM's that I have seen have rack mounting slots on the front panel, yours looks to have just holes. How did you manage it? Noel
> *From:* reece_k1 <mailto:reece_k1@...>
> *Sent:* Wednesday, March 27, 2013 9:50 PM
> *To:* Racal6790GM@yahoogroups.com <mailto:Racal6790GM@yahoogroups.com>
> *Subject:* [Racal6790GM] My RA6790 upgrade
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>
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> http://i66.photobucket.com/albums/h244/Reecehk/DRA6790-6_zpsd9615637.jpg
>
> Thanks to All,
> Reece.
>
>

2140. Re: My RA6790 upgrade

Yahoo group: Racal6790GM
Date: 2013-03-28 00:16:01 UTC
From: reece_k1
Topic: 2136 Message: 2140

Hi Noel, I haven't really noticed, I assumed all the radio's had holes!! I just did a check online and all seem to have holes.
Maybe some models (like yours) had slots.

Reece.

--- In Racal6790GM@yahoogroups.com, "noel.lipscombe" <noel.lipscombe@...> wrote:
>
> Reece, You have done a great customising job. One point that intrigues me is that all the 6790 GMâ□□s that I have seen have rack mounting slots on the front panel, yours looks to have just holes. How did you manage it? Noel
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> From: reece_k1
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> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] My RA6790 upgrade
>
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> http://i66.photobucket.com/albums/h244/Reecehk/DRA6790-6_zpsd9615637.jpg
>
> Thanks to All,
> Reece.
>

2141. Re: My RA6790 upgrade

Yahoo group: Racal6790GM
Date: 2013-03-28 00:23:36 UTC
From: reece_k1
Topic: 2136 Message: 2141

Hi, thanks for your comments, I posted my response to Noel before I received this, yes I'm beginning to think that someone filed/cut the sides out on Noel's to make slots, maybe the rack used wasn't a standard 19" or as I mentioned some models may have had slots, Gary would know.

Cheers

--- In Racal6790GM@yahoogroups.com, "casy_ch@..." <casy_ch@...> wrote:
>
> Hi Noël
>
> To my knowledge they have not got slots. E.g. my RA-6793 (RA-6790 with
> keys) and my RA-1792 have both got holes too only. The single one having
> slots here is the RA-3712.
>
> Jean-Claude
>
> Am 27.03.2013 21:11, schrieb noel.lipscombe:
> >
> > Reece, You have done a great customising job. One point that intrigues
> > me is that all the 6790 GM's that I have seen have rack mounting slots
> > on the front panel, yours looks to have just holes. How did you manage
> > it? Noel
> > *From:* reece_k1 <mailto:reece_k1@...>
> > *Sent:* Wednesday, March 27, 2013 9:50 PM
> > *To:* Racal6790GM@yahoogroups.com <mailto:Racal6790GM@yahoogroups.com>
> > *Subject:* [Racal6790GM] My RA6790 upgrade
> >
> > First off I would like to thank many members here for their help and
> > support in completing this project.
> >
> > What started off as a very basic stock radio has turned into a very
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> > In detail:
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> > I have replaced the electrolytics on the A4 board with new ones (not
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> >
> > Thanks to All,
> > Reece.
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>

2142. Re: [Racal6790GM] Re: My RA6790 upgrade

Yahoo group: Racal6790GM
Date: 2013-03-28 06:08:43 UTC
From: noel.lipscombe
Topic: 2136 Message: 2142

Reece & All, My face is red !! They are not slots but as the holes are slightly elongated and my memory gave me the wrong impression when I looked at the photos. Clearly I haven't seen many RA6790's !! Sorry, Noel

From: reece_k1
Sent: Thursday, March 28, 2013 11:23 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: My RA6790 upgrade

Hi, thanks for your comments, I posted my response to Noel before I received this, yes I'm beginning to think that someone filed/cut the sides out on Noel's to make slots, maybe the rack used wasn't a standard 19" or as I mentioned some models may have had slots, Gary would know.

Cheers

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> > it? Noel
> > *From:* reece_k1 <mailto:reece_k1@...>
> > *Sent:* Wednesday, March 27, 2013 9:50 PM
> > *To:* mailto:Racal6790GM%40yahoogroups.com
<mailto:mailto:Racal6790GM%40yahoogroups.com>
> > *Subject:* [Racal6790GM] My RA6790 upgrade
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> > In detail:
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> > I have replaced the electrolytics on the A4 board with new ones (not
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> > Although the display LCD's were ok they were a bit light on so I
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> >
> > Thanks to All,
> > Reece.
> >
> >

>

2143. Re: [Racal6790GM] My RA6790 upgrade

Yahoo group: Racal6790GM
Date: 2013-03-28 12:21:22 UTC
From: Kevin Alfred Strom
Topic: 2136 Message: 2143

On 3/27/2013 6:50 AM, reece_k1 wrote:
> First off I would like to thank many members here for their help and support in completing this project.
>
> What started off as a very basic stock radio has turned into a very nice radio that looks good, sounds great and performs well.
>
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> I have replaced the electrolytics on the A4 board with new ones (not NOS), replaced the battery backup (VARTA).The A6A2 EPROMS have been replaced mainly for the 10Hz step.
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>
> Thanks to All,
> Reece.
[...]

Beautiful work, Reece. You have improved an already legendary receiver. I love mine and made some mods, but nothing as physically impressive as yours!

I modified my 6790 for high-fidelity audio (beefed up the bass response down to 30 Hz by increasing coupling caps mainly) and better AGC on AM -- and, in an attempt to make it true to its British heritage, I drive a Wharfedale speaker system with it.

Although I mostly use my Flex SDR-1000, the 6790 is my reference receiver and I set up my transmit audio chain so it sounds best on the Racal.

You can hear the Racal receiving an unusually good quality amateur AM signal here:

http://liberty.3950.net/WA3VJB%207290%2020k%20bw%2020110320%200317PM%20ET.mp3

73,

Kevin, WB4AIO.

2144. Re: My RA6790 upgrade

Yahoo group: Racal6790GM
Date: 2013-03-29 05:59:49 UTC
From: reece_k1
Topic: 2136 Message: 2144

Hi Kevin, certainly sounds beefy, running it through a HiFi setup would be nice, I remember listening to shortwave on one of those old 40's valve radio's with the 12" speaker, they were fabulous, I attached an external BFO to one and was fun picking up the local amateur ssb stations.
Reception was much better then without all the modern computer driven appliances, switch-mode supplies etc.
How do you find the Flex radio? I have a Winradio G305e and Radiocom 6.42, it's nice but for some reason it doesn't get used like the Racal, I guess I just like the feel of the old boat anchors, I can see more value for the dollar!! not to mention feel!! (this thing weighs around 18Kg now)
I would like to get a new TenTec RX-340 HF DSP, though it will take me a while to save for that!!!

Cheers,
Reece.

--- In Racal6790GM@yahoogroups.com, Kevin Alfred Strom <kevin.alfred.strom@...> wrote:
>
> On 3/27/2013 6:50 AM, reece_k1 wrote:
> > First off I would like to thank many members here for their help and support in completing this project.
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>
>
> 73,
>
>
> Kevin, WB4AIO.
>

2145. Processor noise

Yahoo group: Racal6790GM
Date: 2013-03-29 07:37:29 UTC
From: pnhfromqld
Topic: 2145 Message: 2145

My 6790 suffers badly from processor noise, especially on the higher frequencies, it lights up 4-5 bars of the s meter.

A search through the messages here suggested a number of options, including pulling the A6A1 board.

That fixed the problem, and the receiver now seems lovely and quiet from end to end.

However I occasionally like to use the remote facility via the A6A1 board and would like it back. Has anyone any suggestions as to the cause of the noise. I have looked at the A6A1 board under magnification and can see no obvious faults. There is nothing loose, solder joints all look ok, capacitors all appear ok.

Should I just do a premptive strike on all the caps on the board?

thanks

Peter

2146. Re: Processor noise

Yahoo group: Racal6790GM
Date: 2013-03-29 09:22:56 UTC
From: reece_k1
Topic: 2145 Message: 2146

Hi Peter, that's a weird one!! does it produce the noise when there is nothing plugged into it?
Is the A6A2 board a standard board or is it a Z8o board from a6a2.co.uk ?

Reece

--- In Racal6790GM@yahoogroups.com, "pnhfromqld" <p.holtham@...> wrote:
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> thanks
>
> Peter
>

2147. Re: [Racal6790GM] Re: Processor noise

Yahoo group: Racal6790GM
Date: 2013-03-29 10:18:39 UTC
From: Phill Simmons
Topic: 2145 Message: 2147

Hi,
I can assure everyone that all of the boards that leave A6A2 are fully tested for noise and functionality. Both Z80 & F8 variants.
If you are using a Z80 A6A1 board with an F8 A6A2 then you will have problems, they are not compatible.

The Z80 system is totally different to the F8 earlier versions.

If anyone has any problems with any of my boards or products that I sell then I would ask them to contact me directly.

Rgds,
Phill A6A2

From: reece_k1 <reece_k1@...>
To: Racal6790GM@yahoogroups.com
Sent: Friday, 29 March 2013, 9:22
Subject: [Racal6790GM] Re: Processor noise

Hi Peter, that's a weird one!! does it produce the noise when there is nothing plugged into it?
Is the A6A2 board a standard board or is it a Z8o board from a6a2.co.uk ?

Reece

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> thanks
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> Peter
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2148. Re: Processor noise

Yahoo group: Racal6790GM
Date: 2013-03-29 11:01:50 UTC
From: pnhfromqld
Topic: 2145 Message: 2148

Both the A6a1 and A6A2 boards are Racal original. I don't know what the processor is, I have just put the receiver back in the rack!

The noise is present with the interface board plugged but nothing attached to the round connector at the back. Adding a PC for control just adds to the problem.

To avoid doubt the boards are NOT from Phil's A6A2 website, they are Racal original. I do have Phil's A0 rf amplifier board and protection circuit fitted, and it is excellent, well worth fitting.

Over the weekend I'll plug the interface card back in and see if the noise comes back.

Peter

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> Peter
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2149. RE: [Racal6790GM] Re: Processor noise

Yahoo group: Racal6790GM
Date: 2013-03-29 13:00:17 UTC
From: Thomas Frobase
Topic: 2145 Message: 2149

I ended up putting ferrite beads on the individual leads of my serial cable coming into the radio, it significantly lowered the noise . tom, N3LLL

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of pnhfromqld
Sent: Friday, March 29, 2013 6:02 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Processor noise

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> That fixed the problem, and the receiver now seems lovely and quiet from end to end.
>
> However I occasionally like to use the remote facility via the A6A1 board and would like it back. Has anyone any suggestions as to the cause of the noise. I have looked at the A6A1 board under magnification and can see no obvious faults. There is nothing loose, solder joints all look ok, capacitors all appear ok.
>
> Should I just do a premptive strike on all the caps on the board?
>
> thanks
>

> Peter
>

2150. RA6790/GM VIRTUAL RECEIVER Software

Yahoo group: Racal6790GM
Date: 2013-04-01 01:18:35 UTC
From: reece_k1
Topic: 2150 Message: 2150

Has anyone been able to use the main dial to adjust the frequency in CW mode using this software?
This is the only ssb mode that you can change the bandwidth to suit various signals.

2151. Urgent google document

Yahoo group: Racal6790GM
Date: 2013-04-01 04:02:56 UTC
From: Bill Houston
Topic: 2151 Message: 2151

Please view the document i uploaded for you using Google docs.

Click here just sign in with your email to view the document its very important.

Thank you.

Bill.

2152. Re: [Racal6790GM] RA6790/GM VIRTUAL RECEIVER Software

Yahoo group: Racal6790GM
Date: 2013-04-01 08:19:00 UTC
From: Phill Simmons
Topic: 2150 Message: 2152

Hi Reece,

I can confirm that using both the (Z80 and F8) versions of the A6A1 & 2, that all features and functions work correctly using the W6GER application.
Including CW / BFO / BW and Frequency main dial tuning in CW mode.

I am using the V21 version of the W6GER app.

Rgds,
Phill

From: reece_k1 <reece_k1@...>
To: Racal6790GM@yahoogroups.com
Sent: Monday, 1 April 2013, 2:18
Subject: [Racal6790GM] RA6790/GM VIRTUAL RECEIVER Software

Has anyone been able to use the main dial to adjust the frequency in CW mode using this software?
This is the only ssb mode that you can change the bandwidth to suit various signals.

2153. For sale Racal 6790/GM

Yahoo group: Racal6790GM
Date: 2013-04-03 00:37:16 UTC
From: Mark J Forte Sr
Topic: 2153 Message: 2153

I have listed a Racal in great condition on Ebay

http://www.ebay.com/itm/281087639212?ssPageName=STRK:MESELX:IT&_trksid=p3984.m1558.l2649

2154. Odd Tuning Phenomena/Spring Cleaning Junk available

Yahoo group: Racal6790GM
Date: 2013-04-03 01:51:42 UTC
From: ka9p@...
Topic: 2154 Message: 2154

Greetings fellow 6790philes.

1) I just noticed on the 6790 I use in the shop that the encoder doesn't seem to do anything for about 90 degrees of rotation, in the same spot, regardless of the tuning speed. Its almost as if the encoder doesn't see anything on a quadrant of the wheel.

Has anyone seen this before? If so, any idea what it is? It doesn't really affect operability but of course now that I noticed it, it's making me a little crazy.

2) Also, I have 4 old 6790 chassis in the garage that have pretty much been plucked clean of boards and shields, but still have all the coax and ribbon connectors and whatever other hardware one usually find remaining. If any one needs any of those cables or hardware I'm happy to pull them give them away to a good home, i.e. someone who will actually use them (i.e. not EBay them) for the cost of the USPS flat rate box they would fit in.

There is also a pretty good collection of what I will call inop boards, although they all haven't failed in the test mule, but many did, some with obvious popped tants, etc, but probably good for trouble shooting or for spare parts, I'm sure we could work out something more than reasonable if ya need a few of those as well.

And a bunch of top and bottom covers, and maybe a few shields.

Finally, along with all that stuff, I also acquired a few cases that look to be from a repair depot with many of the ICs needed available loose if you're looking for those. I know there are a few hard to fine types missing but let me know if you need anything along that line as well, 'cause with four running at the moment, which is at least 2 too many for the space I'm moving to, its unlikely I plan to do any board level work any time soon.

Cheers,and thanks, Scott

2155. RE: [Racal6790GM] Odd Tuning Phenomena/Spring Cleaning Junk available

Yahoo group: Racal6790GM
Date: 2013-04-03 02:25:04 UTC
From: MATT PARKINSON
Topic: 2154 Message: 2155

Do you any good displays for the front panel????

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of ka9p@...
Sent: Tuesday, April 02, 2013 6:52 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Odd Tuning Phenomena/Spring Cleaning Junk available

Greetings fellow 6790philes.

1) I just noticed on the 6790 I use in the shop that the encoder doesn't seem to do anything for about 90 degrees of rotation, in the same spot, regardless of the tuning speed. Its almost as if the encoder doesn't see anything on a quadrant of the wheel.

Has anyone seen this before? If so, any idea what it is? It doesn't really affect operability but of course now that I noticed it, it's making me a little crazy.

2) Also, I have 4 old 6790 chassis in the garage that have pretty much been plucked clean of boards and shields, but still have all the coax and ribbon connectors and whatever other hardware one usually find remaining. If any one needs any of those cables or hardware I'm happy to pull them give them away to a good home, i.e. someone who will actually use them (i.e. not EBay them) for the cost of the USPS flat rate box they would fit in.

There is also a pretty good collection of what I will call inop boards, although they all haven't failed in the test mule, but many did, some with obvious popped tants, etc, but probably good for trouble shooting or for spare parts, I'm sure we could work out something more than reasonable if ya need a few of those as well.

And a bunch of top and bottom covers, and maybe a few shields.

Finally, along with all that stuff, I also acquired a few cases that look to be from a repair depot with many of the ICs needed available loose if you're looking for those. I know there are a few hard to fine types missing but let me know if you need anything along that line as well, 'cause with four running at the moment, which is at least 2 too many for the space I'm moving to, its unlikely I plan to do any board level work any time soon.

Cheers,and thanks, Scott

2156. Re: [Racal6790GM] Odd Tuning Phenomena/Spring Cleaning Junk available

Yahoo group: Racal6790GM
Date: 2013-04-03 02:26:46 UTC
From: ka9p@...
Topic: 2154 Message: 2156

Sadly not, I had to buy a few from Gary to get the other ones running.
Sorry. 73 Scott

In a message dated 4/2/2013 9:25:10 P.M. Central Daylight Time,
mparkinson1@... writes:

Do you any good displays for the front panel????

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
Behalf Of ka9p@...
Sent: Tuesday, April 02, 2013 6:52 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Odd Tuning Phenomena/Spring Cleaning Junk available

Greetings fellow 6790philes.

1) I just noticed on the 6790 I use in the shop that the encoder doesn't
seem to do anything for about 90 degrees of rotation, in the same spot,
regardless of the tuning speed. Its almost as if the encoder doesn't see
anything on a quadrant of the wheel.

Has anyone seen this before? If so, a ny idea what it is? It doesn't
really affect operability but of course now that I noticed it, it's making me
a little crazy.

2) Also, I have 4 old 6790 chassis in the garage that have pretty much
been plucked clean of boards and shields, but still have all the coax and
ribbon connectors and whatever other hardware one usually find remaining. If
any one needs any of those cables or hardware I'm happy to pull them give
them away to a good home, i.e. someone who will actually use them (i.e. not
EBay them) for the cost of the USPS flat rate box they would fit in.

< /span>

There is also a pretty good collection of what I will call inop boards,
although they all haven't failed in the test mule, but many did, some with
obvious popped tants, etc, but probably good for trouble shooting or for
spare parts, I'm sure we could work out something more than reasonable if ya
need a few of those as well.

And a bunch of top and bottom covers, and maybe a few shields.

Finally, along with all that stuff, I also acquired a few cases that look
to be from a repair depot with many of the ICs needed available loose if
you're looking for those. I know there are a few hard to fine types missing
but let me know if you need anything along that line as well, 'cause with

four running at the moment, which is at least 2 too many for the space I'm moving to, its unlikely I plan to do any board level work any time soon.

Cheers,and thanks, Scott

2157. Re: Odd Tuning Phenomena/Spring Cleaning Junk available

Yahoo group: Racal6790GM
Date: 2013-04-03 08:04:23 UTC
From: reece_k1
Topic: 2154 Message: 2157

Hi Scott, did you check that the tuning rotary disk is in position firmly and not buckled? also did you check the pcb side of the disk to see if the black coating is nice and clear/clean?

Reece.

--- In Racal6790GM@yahoogroups.com, ka9p@... wrote:
>
> Greetings fellow 6790philes.
>
> 1) I just noticed on the 6790 I use in the shop that the encoder doesn't
> seem to do anything for about 90 degrees of rotation, in the same spot,
> regardless of the tuning speed. Its almost as if the encoder doesn't see
> anything on a quadrant of the wheel.
>
> Has anyone seen this before? If so, any idea what it is? It doesn't
> really affect operability but of course now that I noticed it, it's making me a
> little crazy.
>
> 2) Also, I have 4 old 6790 chassis in the garage that have pretty much been
> plucked clean of boards and shields, but still have all the coax and
> ribbon connectors and whatever other hardware one usually find remaining. If
> any one needs any of those cables or hardware I'm happy to pull them give
> them away to a good home, i.e. someone who will actually use them (i.e. not
> EBay them) for the cost of the USPS flat rate box they would fit in.
>
> There is also a pretty good collection of what I will call inop boards,
> although they all haven't failed in the test mule, but many did, some with
> obvious popped tants, etc, but probably good for trouble shooting or for spare
> parts, I'm sure we could work out something more than reasonable if ya
> need a few of those as well.
>
> And a bunch of top and bottom covers, and maybe a few shields.
>
> Finally, along with all that stuff, I also acquired a few cases that look
> to be from a repair depot with many of the ICs needed available loose if
> you're looking for those. I know there are a few hard to fine types missing
> but let me know if you need anything along that line as well, 'cause with
> four running at the moment, which is at least 2 too many for the space I'm
> moving to, its unlikely I plan to do any board level work any time soon.
>
> Cheers,and thanks, Scott
>

2158. Re: [Racal6790GM] Odd Tuning Phenomena/Spring Cleaning Junk available

Yahoo group: Racal6790GM
Date: 2013-04-03 14:17:47 UTC
From: Bob Betts
Topic: 2154 Message: 2158

Hi Scott:
Just a long shot, but I fixed a 6790 owned by a guy who shouldn't have been inside making adjustments to the encoder bushing. Anyhow, I had to disassemble the encoder wheel assembly and take the bend out of it...and put all the washers back in...in the right order.
A second malfunction was when I was installing Gary's LED kit and for the life of me couldn't get the encoder to work correctly. While bending over the unit to examine things, it began to work. My shadow from the high-intensity lamp let the sensors work properly. I was able to repeat the problem with a flashlight...silly me.
None of these may be your problem, but figured I'd throw them out there.

Since you mentioned extra parts, I was wondering if anyone had an old front panel for a 6793. It's not an emergency, but something I eventually need to do.

Good luck,

Bob, N1KPR

http://www.bobsamerica.com
http://www.youtube.com/n1kpr

--- On Tue, 4/2/13, ka9p@... <ka9p@...> wrote:

From: ka9p@... <ka9p@...>
Subject: [Racal6790GM] Odd Tuning Phenomena/Spring Cleaning Junk available
To: Racal6790GM@yahoogroups.com
Date: Tuesday, April 2, 2013, 9:51 PM

Greetings fellow 6790philes.

1) I just noticed on the 6790 I use in the shop that the encoder doesn't seem to do anything for about 90 degrees of rotation, in the same spot, regardless of the tuning speed. Its almost as if the encoder doesn't see anything on a quadrant of the wheel.

Has anyone seen this before? If so, any idea what it is? It doesn't really affect operability but of course now that I noticed it, it's making me a little crazy.

2) Also, I have 4 old 6790 chassis in the garage that have pretty much been plucked clean of boards and shields, but still have all the coax and ribbon connectors and whatever other hardware one usually find remaining. If any one needs any of those cables or hardware I'm happy to pull them give them away to a good home, i.e. someone who will actually use them (i.e. not EBay them) for the cost of the USPS flat rate box they would fit in.

There is also a pretty good collection of what I will call inop boards, although they all haven't failed in the test mule, but many did, some with obvious popped tants, etc, but probably good for trouble shooting or for spare parts, I'm sure we could work out something more than reasonable if ya need a few of those as well.

And a bunch of top and bottom covers, and maybe a few shields.

Finally, along with all that stuff, I also acquired a few cases that look to be from a repair depot with many of the ICs needed available loose if you're looking for those. I know there are a few hard to fine types missing but let me know if you need anything along that line as well, 'cause with four running at the moment, which is at least 2 too many for the space I'm moving to, its unlikely I plan to do any board level work any time soon.

Cheers,and thanks, Scott

2159. Re: [Racal6790GM] Odd Tuning Phenomena/Spring Cleaning Junk available

Yahoo group: Racal6790GM
Date: 2013-04-03 16:10:15 UTC
From: gewingerd@netzero.com
Topic: 2154 Message: 2159
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2160. Software control program RA6790 & RA1792

Yahoo group: Racal6790GM
Date: 2013-04-15 05:58:50 UTC
From: reece_k1
Topic: 2160 Message: 2160

Hi, I haven't tried this as yet, not sure when I will get around to it but whilst searching for control software I came across this:
http://rxcontrol.free.fr/RxControl/index.html
Looks interesting!!

2161. Re: Software control program RA6790 & RA1792

Yahoo group: Racal6790GM
Date: 2013-04-16 06:07:33 UTC
From: reece_k1
Topic: 2160 Message: 2161

I have now tried this and it runs showing the frequency, mode etc but flashes an error "Rx: Bad ID", have sent an email to RxControl and waiting for a response.
Hopefully I can get it working, if anyone else can give it a go I would appreciate it.

Thanks,
Reece.

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
> Hi, I haven't tried this as yet, not sure when I will get around to it but whilst searching for control software I came across this:
> http://rxcontrol.free.fr/RxControl/index.html
> Looks interesting!!
>

2162. Re: [Racal6790GM] Re: Software control program RA6790 & RA1792

Yahoo group: Racal6790GM
Date: 2013-04-16 09:10:04 UTC
From: Raymond Boute
Topic: 2160 Message: 2162

Perhaps the Rx ID message is due to an ID code
that is not valid BCD. The acceptable codes are
described in the manuals (Fig. 2-11 or Table 2-6
depending on the issue). They are also listed in
Gary Wingerd's "setup and install" notes,
although there are errors in the table (column R missing).
Here is a summary of the correct BCD,
referring to the pins on the round Racal
connector. Pins KLMN encode the units, PRST the
tens, least significant bit leftmost. In other
words, the numeric ID is given by
ID = K + 2L + 4M + 8N + 10(P + 2R + 4S + 8T)
with the condition K + 2L + 4M + 8N < 10 and P +
2R + 4S + 8T < 10 for valid BCD. For instance,
KLMN = 1110 and PRST = 1100 yields ID = 37 (Gary's example).
For each of these pins, value 0 is implemented by
connecting the pin to pin c (system ground),
value 1 by leaving the pin unconnected. So the
least number of ground connections corresponds to
ID = 77 (only N and T connected to ground).

I also experienced the same problem as reported
by others: extreme interference from the
interface, detectable by other receivers. When
connecting a shielded RS232 cable to the Rx only,
interference is small, but a laptop (even with
battery removed) at the other end acts as an
effective local jamming antenna. Also a few 2 cm
long wires left protruding from the connector
(intended to change Rx ID easily) cause
interference when holding my hand close (aluminum
foil might help, but worse news follows).
When actually running the w6ger program, the
interference wipes out everything, making
reception impossible. Admittedly, all this is
with an indoor antenna, but these problems occur
to a much lesser degree with the RA6775 and
RA1792 controlled using my own LabVIEW programs on the aforementioned laptop.
This may indicate a defective digital board
in the 6790. Perhaps I should replace both
relevant boards by Phill's Z80-based alternative.

Regards,
Raymond.

==========

At 08:07 2013-04-16, reece_k1 wrote:

>I have now tried this and it runs showing the
>frequency, mode etc but flashes an error "Rx:
>Bad ID", have sent an email to RxControl and waiting for a response.
>Hopefully I can get it working, if anyone else
>can give it a go I would appreciate it.
>
>Thanks,
>Reece.
>
>--- In
><mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com,
>"reece_k1" <reece_k1@...> wrote:
> >
> > Hi, I haven't tried this as yet, not sure
> when I will get around to it but whilst
> searching for control software I came across this:
> >
> <http://rxcontrol.free.fr/RxControl/index.html>http://rxcontrol.free.fr/RxControl/index.
html
> > Looks interesting!!
> >
>
>

2163. Re: Software control program RA6790 & RA1792

Yahoo group: Racal6790GM
Date: 2013-04-16 10:50:04 UTC
From: reece_k1
Topic: 2160 Message: 2163

Hi Raymond, I have the ID set to 37:

K D1-1 1 Receiver ID LSD = 7
L D1-2 1
M D1-3 1
N D1-4 0 Connected to Gnd

P D2-1 1 Receiver ID MSD = 7
R D2-2 1
S D2-3 0 Connected to Gnd
T D2-4 0 Connected to Gnd

I don't think it's the radio ID since the program is displaying the mode and frequency correctly.
I have also checked the baud rate (WXYZ all 1's) etc all ok.
The program produces a log:

=> @0000000 TRY CONNECT
-> @0000000 S2
<- @0000081
-> @0000000 S6
<- @00000520K37

-> @0000000 S8
-> @0000037 TD
<- @0000053D3S1

-> @0000000 S9
-> @0000037 G
<- @0000051F22.376D3I.4M7B-1.7A5S1

=> Err:bad ID

=> @0000705 TRY CONNECT
-> @0000000 S2
<- @0000078
-> @0000000 S6
<- @00000530K37

-> @0000000 S8
-> @0000037 TD
<- @0000053D3S1

-> @0000000 S9
-> @0000037 G
<- @0000051F22.376D3I.4M7B-1.7A5S1

```
=> Err:bad ID

=> @0001144 TRY CONNECT
-> @0000000 S2
<- @0000078
-> @0000000 S6
<- @00000530K37

-> @0000000 S8
-> @0000037 TD
<- @0000053D3S1

-> @0000000 S9
-> @0000037 G
<- @0000051F22.376D3I.4M7B-1.7A5S1

=> Err:bad ID

=> @0001146 TRY CONNECT
-> @0000000 S2
<- @0000078
-> @0000000 S6
<- @00000530K37

-> @0000000 S8
-> @0000037 TD
<- @0000053D3S1

-> @0000000 S9
-> @0000037 G
<- @0000051F22.376D3I.4M7B-1.7A5S1

=> Err:bad ID

=> @0001144 TRY CONNECT
-> @0000000 S2
<- @0000079
-> @0000000 S6
<- @00000520K37

-> @0000000 S8
-> @0000037 TD
<- @0000053D3S1

-> @0000000 S9
-> @0000037 G
<- @0000051F22.376D3I.4M7B-1.7A5S1

=> Err:bad ID
```

I wouldn't have a clue what the above signifies (I would guess the error is line @0000051).

The links to A6A1 A6A2 are correct The DB9 pins are correct (only 2, 3, & 5 used)

Rather baffling, the only 2 other things I don't know are:

The BIOS EPROMS is a version that has the 30hz step changed to 10hz.
The A6A1 board is the original, not the newer Z80 board.

Thanks,
Reece.

--- In Racal6790GM@yahoogroups.com, Raymond Boute <Raymond.Boute@...> wrote:
>
> Perhaps the Rx ID message is due to an ID code
> that is not valid BCD. The acceptable codes are
> described in the manuals (Fig. 2-11 or Table 2-6
> depending on the issue). They are also listed in
> Gary Wingerd's "setup and install" notes,
> although there are errors in the table (column R missing).
> Here is a summary of the correct BCD,
> referring to the pins on the round Racal
> connector. Pins KLMN encode the units, PRST the
> tens, least significant bit leftmost. In other
> words, the numeric ID is given by
> ID = K + 2L + 4M + 8N + 10(P + 2R + 4S + 8T)
> with the condition K + 2L + 4M + 8N < 10 and P +
> 2R + 4S + 8T < 10 for valid BCD. For instance,
> KLMN = 1110 and PRST = 1100 yields ID = 37 (Gary's example).
> For each of these pins, value 0 is implemented by
> connecting the pin to pin c (system ground),
> value 1 by leaving the pin unconnected. So the
> least number of ground connections corresponds to
> ID = 77 (only N and T connected to ground).
>
> I also experienced the same problem as reported
> by others: extreme interference from the
> interface, detectable by other receivers. When
> connecting a shielded RS232 cable to the Rx only,
> interference is small, but a laptop (even with
> battery removed) at the other end acts as an
> effective local jamming antenna. Also a few 2 cm
> long wires left protruding from the connector
> (intended to change Rx ID easily) cause
> interference when holding my hand close (aluminum
> foil might help, but worse news follows).
> When actually running the w6ger program, the
> interference wipes out everything, making
> reception impossible. Admittedly, all this is
> with an indoor antenna, but these problems occur
> to a much lesser degree with the RA6775 and
> RA1792 controlled using my own LabVIEW programs on the aforementioned laptop.
> This may indicate a defective digital board
> in the 6790. Perhaps I should replace both
> relevant boards by Phill's Z80-based alternative.
>
> Regards,
> Raymond.

>
> ================================
>
> At 08:07 2013-04-16, reece_k1 wrote:
>
> >I have now tried this and it runs showing the
> >frequency, mode etc but flashes an error "Rx:
> >Bad ID", have sent an email to RxControl and waiting for a response.
> >Hopefully I can get it working, if anyone else
> >can give it a go I would appreciate it.
> >
> >Thanks,
> >Reece.
> >
> >--- In
> ><mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com,
> >"reece_k1" <reece_k1@> wrote:
> > >
> > > Hi, I haven't tried this as yet, not sure
> > when I will get around to it but whilst
> > searching for control software I came across this:
> > >
> > <http://rxcontrol.free.fr/RxControl/index.html>http://rxcontrol.free.fr/RxControl/inde
x.html
> > > Looks interesting!!
> > >
> >
> >
>

2164. Re: Software control program RA6790 & RA1792

Yahoo group: Racal6790GM
Date: 2013-04-16 10:58:08 UTC
From: reece_k1
Topic: 2160 Message: 2164

This message took out all the tabs, looks a mess, will try again:

the ID set to 37:

K D1-1 1 Receiver ID LSD = 7
L D1-2 1
M D1-3 1
N D1-4 0 Connected to Gnd

P D2-1 1 Receiver ID MSD = 7
R D2-2 1
S D2-3 0 Connected to Gnd
T D2-4 0 Connected to Gnd

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
> Hi Raymond, I have the ID set to 37:
>
> K D1-1 1 Receiver ID LSD = 7
> L D1-2 1
> M D1-3 1
> N D1-4 0 Connected to Gnd
> ------
> P D2-1 1 Receiver ID MSD = 7
> R D2-2 1
> S D2-3 0 Connected to Gnd
> T D2-4 0 Connected to Gnd
>
> I don't think it's the radio ID since the program is displaying the mode and frequency correctly.
> I have also checked the baud rate (WXYZ all 1's) etc all ok.
> The program produces a log:
>
> => @0000000 TRY CONNECT
> -> @0000000 S2
> <- @0000081
> -> @0000000 S6
> <- @00000520K37
>
> -> @0000000 S8
> -> @0000037 TD
> <- @0000053D3S1
>
> -> @0000000 S9
> -> @0000037 G
> <- @0000051F22.376D3I.4M7B-1.7A5S1

```
>
> => Err:bad ID
>
> => @0000705 TRY CONNECT
> -> @0000000 S2
> <- @0000078
> -> @0000000 S6
> <- @00000530K37
>
> -> @0000000 S8
> -> @0000037 TD
> <- @0000053D3S1
>
> -> @0000000 S9
> -> @0000037 G
> <- @0000051F22.376D3I.4M7B-1.7A5S1
>
> => Err:bad ID
>
> => @0001144 TRY CONNECT
> -> @0000000 S2
> <- @0000078
> -> @0000000 S6
> <- @00000530K37
>
> -> @0000000 S8
> -> @0000037 TD
> <- @0000053D3S1
>
> -> @0000000 S9
> -> @0000037 G
> <- @0000051F22.376D3I.4M7B-1.7A5S1
>
> => Err:bad ID
>
> => @0001146 TRY CONNECT
> -> @0000000 S2
> <- @0000078
> -> @0000000 S6
> <- @00000530K37
>
> -> @0000000 S8
> -> @0000037 TD
> <- @0000053D3S1
>
> -> @0000000 S9
> -> @0000037 G
> <- @0000051F22.376D3I.4M7B-1.7A5S1
>
> => Err:bad ID
```

>
> => @0001144 TRY CONNECT
> -> @0000000 S2
> <- @0000079
> -> @0000000 S6
> <- @00000520K37
>
> -> @0000000 S8
> -> @0000037 TD
> <- @0000053D3S1
>
> -> @0000000 S9
> -> @0000037 G
> <- @0000051F22.376D3I.4M7B-1.7A5S1
>
> => Err:bad ID
>
> I wouldn't have a clue what the above signifies (I would guess the error is line
@0000051).
>
> The links to A6A1 A6A2 are correct The DB9 pins are correct (only 2, 3, & 5 used)
>
> Rather baffling, the only 2 other things I don't know are:
>
> The BIOS EPROMS is a version that has the 30hz step changed to 10hz.
> The A6A1 board is the original, not the newer Z80 board.
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> Thanks,
> Reece.
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> --- In Racal6790GM@yahoogroups.com, Raymond Boute <Raymond.Boute@> wrote:
> >
> > Perhaps the Rx ID message is due to an ID code
> > that is not valid BCD. The acceptable codes are
> > described in the manuals (Fig. 2-11 or Table 2-6
> > depending on the issue). They are also listed in
> > Gary Wingerd's "setup and install" notes,
> > although there are errors in the table (column R missing).
> > Here is a summary of the correct BCD,
> > referring to the pins on the round Racal
> > connector. Pins KLMN encode the units, PRST the
> > tens, least significant bit leftmost. In other
> > words, the numeric ID is given by
> > ID = K + 2L + 4M + 8N + 10(P + 2R + 4S + 8T)
> > with the condition K + 2L + 4M + 8N < 10 and P +
> > 2R + 4S + 8T < 10 for valid BCD. For instance,
> > KLMN = 1110 and PRST = 1100 yields ID = 37 (Gary's example).
> > For each of these pins, value 0 is implemented by
> > connecting the pin to pin c (system ground),

> > value 1 by leaving the pin unconnected. So the
> > least number of ground connections corresponds to
> > ID = 77 (only N and T connected to ground).
> >
> > I also experienced the same problem as reported
> > by others: extreme interference from the
> > interface, detectable by other receivers. When
> > connecting a shielded RS232 cable to the Rx only,
> > interference is small, but a laptop (even with
> > battery removed) at the other end acts as an
> > effective local jamming antenna. Also a few 2 cm
> > long wires left protruding from the connector
> > (intended to change Rx ID easily) cause
> > interference when holding my hand close (aluminum
> > foil might help, but worse news follows).
> > When actually running the w6ger program, the
> > interference wipes out everything, making
> > reception impossible. Admittedly, all this is
> > with an indoor antenna, but these problems occur
> > to a much lesser degree with the RA6775 and
> > RA1792 controlled using my own LabVIEW programs on the aforementioned laptop.
> > This may indicate a defective digital board
> > in the 6790. Perhaps I should replace both
> > relevant boards by Phill's Z80-based alternative.
> >
> > Regards,
> > Raymond.
> >
> > ================================
> >
> > At 08:07 2013-04-16, reece_k1 wrote:
> >
> > >I have now tried this and it runs showing the
> > >frequency, mode etc but flashes an error "Rx:
> > >Bad ID", have sent an email to RxControl and waiting for a response.
> > >Hopefully I can get it working, if anyone else
> > >can give it a go I would appreciate it.
> > >
> > >Thanks,
> > >Reece.
> > >
> > >--- In
> > ><mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com,
> > >"reece_k1" <reece_k1@> wrote:
> > > >
> > > > Hi, I haven't tried this as yet, not sure
> > > > when I will get around to it but whilst
> > > > searching for control software I came across this:
> > > >
> > > > <http://rxcontrol.free.fr/RxControl/index.html>http://rxcontrol.free.fr/RxControl/in

dex.html
> > > > Looks interesting!!
> > > >
> > >
> > >
> >
>

2165. Re: Software control program RA6790 & RA1792

Yahoo group: Racal6790GM
Date: 2013-04-16 11:06:54 UTC
From: reece_k1
Topic: 2160 Message: 2165

That was no better, takes out spaces, try again:

K.......D1-1.......1.......Receiver ID LSD = 7
L.......D1-2.......1
M.......D1-3.......1
N.......D1-4.......0.......Connected to Gnd

P.......D2-1.......1.......Receiver ID MSD = 7
R.......D2-2.......1
S.......D2-3.......0.......Connected to Gnd
T.......D2-4.......0.......Connected to Gnd

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
>
>
>
> This message took out all the tabs, looks a mess, will try again:
>
> the ID set to 37:
>
> K D1-1 1 Receiver ID LSD = 7
> L D1-2 1
> M D1-3 1
> N D1-4 0 Connected to Gnd
> ------
> P D2-1 1 Receiver ID MSD = 7
> R D2-2 1
> S D2-3 0 Connected to Gnd
> T D2-4 0 Connected to Gnd
>
>
>
> --- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@> wrote:
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> > Hi Raymond, I have the ID set to 37:
> >
> > K D1-1 1 Receiver ID LSD = 7
> > L D1-2 1
> > M D1-3 1
> > N D1-4 0 Connected to Gnd
> > ------
> > P D2-1 1 Receiver ID MSD = 7
> > R D2-2 1
> > S D2-3 0 Connected to Gnd

> > T D2-4 0 Connected to Gnd
> >
> > I don't think it's the radio ID since the program is displaying the mode and frequency correctly.
> > I have also checked the baud rate (WXYZ all 1's) etc all ok.
> > The program produces a log:
> >
> > => @0000000 TRY CONNECT
> > -> @0000000 S2
> > <- @0000081
> > -> @0000000 S6
> > <- @00000520K37
> >
> > -> @0000000 S8
> > -> @0000037 TD
> > <- @0000053D3S1
> >
> > -> @0000000 S9
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> > <- @0000051F22.376D3I.4M7B-1.7A5S1
> >
> > => Err:bad ID
> >
> > => @0000705 TRY CONNECT
> > -> @0000000 S2
> > <- @0000078
> > -> @0000000 S6
> > <- @00000530K37
> >
> > -> @0000000 S8
> > -> @0000037 TD
> > <- @0000053D3S1
> >
> > -> @0000000 S9
> > -> @0000037 G
> > <- @0000051F22.376D3I.4M7B-1.7A5S1
> >
> > => Err:bad ID
> >
> > => @0001144 TRY CONNECT
> > -> @0000000 S2
> > <- @0000078
> > -> @0000000 S6
> > <- @00000530K37
> >
> > -> @0000000 S8
> > -> @0000037 TD
> > <- @0000053D3S1
> >
> > -> @0000000 S9

> > -> @0000037 G
> > <- @0000051F22.376D3I.4M7B-1.7A5S1
> >
> > => Err:bad ID
> >
> > => @0001146 TRY CONNECT
> > -> @0000000 S2
> > <- @0000078
> > -> @0000000 S6
> > <- @00000530K37
> >
> > -> @0000000 S8
> > -> @0000037 TD
> > <- @0000053D3S1
> >
> > -> @0000000 S9
> > -> @0000037 G
> > <- @0000051F22.376D3I.4M7B-1.7A5S1
> >
> > => Err:bad ID
> >
> > => @0001144 TRY CONNECT
> > -> @0000000 S2
> > <- @0000079
> > -> @0000000 S6
> > <- @00000520K37
> >
> > -> @0000000 S8
> > -> @0000037 TD
> > <- @0000053D3S1
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@0000051).
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> > The links to A6A1 A6A2 are correct The DB9 pins are correct (only 2, 3, & 5 used)
> >
> > Rather baffling, the only 2 other things I don't know are:
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> > The BIOS EPROMS is a version that has the 30hz step changed to 10hz.
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> > Thanks,
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> > > Perhaps the Rx ID message is due to an ID code
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> > > depending on the issue). They are also listed in
> > > Gary Wingerd's "setup and install" notes,
> > > although there are errors in the table (column R missing).
> > > Here is a summary of the correct BCD,
> > > referring to the pins on the round Racal
> > > connector. Pins KLMN encode the units, PRST the
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> > > words, the numeric ID is given by
> > > ID = K + 2L + 4M + 8N + 10(P + 2R + 4S + 8T)
> > > with the condition K + 2L + 4M + 8N < 10 and P +
> > > 2R + 4S + 8T < 10 for valid BCD. For instance,
> > > KLMN = 1110 and PRST = 1100 yields ID = 37 (Gary's example).
> > > For each of these pins, value 0 is implemented by
> > > connecting the pin to pin c (system ground),
> > > value 1 by leaving the pin unconnected. So the
> > > least number of ground connections corresponds to
> > > ID = 77 (only N and T connected to ground).
> > >
> > > I also experienced the same problem as reported
> > > by others: extreme interference from the
> > > interface, detectable by other receivers. When
> > > connecting a shielded RS232 cable to the Rx only,
> > > interference is small, but a laptop (even with
> > > battery removed) at the other end acts as an
> > > effective local jamming antenna. Also a few 2 cm
> > > long wires left protruding from the connector
> > > (intended to change Rx ID easily) cause
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> > > with an indoor antenna, but these problems occur
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> > > Regards,
> > > Raymond.
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> > > At 08:07 2013-04-16, reece_k1 wrote:
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> > > >frequency, mode etc but flashes an error "Rx:
> > > >Bad ID", have sent an email to RxControl and waiting for a response.
> > > >Hopefully I can get it working, if anyone else
> > > >can give it a go I would appreciate it.
> > > >
> > > >Thanks,
> > > >Reece.
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> > > > <http://rxcontrol.free.fr/RxControl/index.html>http://rxcontrol.free.fr/RxControl/
index.html
> > > > > Looks interesting!!
> > > > >
> > > >
> > > >
> > >
> > >
>

2166. Re: [Racal6790GM] Re: Software control program RA6790 & RA1792

Yahoo group: Racal6790GM
Date: 2013-04-16 12:32:08 UTC
From: Raymond Boute
Topic: 2160 Message: 2166

Dear Reece,

It seems you are using a tty-like program. For
testing, I made a similar tty emulator in
LabVIEW. However, the @000 commands in your
e-mail look strange to me: I would have expected
$ (specified by the Racal manual).

According to the Racal manual, if the Rx ID is
37, the first command you send to that Rx must
start with $37. In further commands to the same
Rx, $37 need not be repeated; for instance, just
typing G <enter> makes the Rx return a list with
the settings, and typing F10 <enter> sets the frequency to 10 MHz.

In your situation, perhaps tty.exe, downloadable
from many places on the web and less capricious
than Hyperterminal, might be a good tool for
testing. Simpler is impossible: on the tty.exe
window, first enter Settings (com port, baud
rate, local echo as wanted), then Action
(connect). Then type $37S2 <Enter> and check
whether the Rx goes to remote. After that,
commands like G <enter> and F6.3 <enter> should work as expected.

Some minor details: insofar as I noticed, the Rx
ignores LF after CR in a command. In replies,
the Rx sends CR only. Another detail: when
closing, a port disconnect action (e.g. in
tty.exe) may be necessary. Otherwise, if you use
the w6ger program afterwards, it complains about the port being open.

Regards,
Raymond

==========

At 12:58 2013-04-16, reece_k1 wrote:
>This message took out all the tabs, looks a mess, will try again:
>
>the ID set to 37:

Some corrections were made in the following (lines marked **)

>K D1-1 1 Receiver ID LSD = 7
>L D1-2 1
>M D1-4 1 **

>N D1-8 0 Connected to Gnd **
>------
>P D2-1 1 Receiver ID MSD = 3 **
>R D2-2 1
>S D2-4 0 Connected to Gnd **
>T D2-8 0 Connected to Gnd **
>
>--- In
><mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com,
>"reece_k1" <reece_k1@...> wrote:
> >
> > Hi Raymond, I have the ID set to 37:
> >
> > KD1-11Receiver ID LSD = 7
> > LD1-21
> > MD1-31
> > ND1-40Connected to Gnd
> > ------
> > PD2-11Receiver ID MSD = 7
> > RD2-21
> > SD2-30Connected to Gnd
> > TD2-40Connected to Gnd
> >
> > I don't think it's the radio ID since the
> program is displaying the mode and frequency correctly.
> > I have also checked the baud rate (WXYZ all 1's) etc all ok.
> > The program produces a log:
> >
> > => @0000000 TRY CONNECT
> > -> @0000000 S2
> > <- @0000081
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> > <- @00000520K37
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> > -> @0000000 S8
> > -> @0000037 TD
> > <- @0000053D3S1
> >
> > -> @0000000 S9
> > -> @0000037 G
> > <- @0000051F22.376D3I.4M7B-1.7A5S1
> >
> > => Err:bad ID
> >
> > => @0000705 TRY CONNECT
> > -> @0000000 S2
> > <- @0000078
> > -> @0000000 S6
> > <- @00000530K37
> >

```
> > -> @0000000 S8
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> > => @0001144 TRY CONNECT
> > -> @0000000 S2
> > <- @0000078
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> > <- @0000053D3S1
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> > I wouldn't have a clue what the above
> signifies (I would guess the error is line @0000051).
> >
> > The links to A6A1 A6A2 are correct The DB9
> pins are correct (only 2, 3, & 5 used)
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> >
> > The BIOS EPROMS is a version that has the 30hz step changed to 10hz.
> > The A6A1 board is the original, not the newer Z80 board.
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> > Thanks,
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> > > ID = K + 2L + 4M + 8N + 10(P + 2R + 4S + 8T)
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> > > For each of these pins, value 0 is implemented by
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> > > value 1 by leaving the pin unconnected. So the
> > > least number of ground connections corresponds to
> > > ID = 77 (only N and T connected to ground).
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> > > interface, detectable by other receivers. When
> > > connecting a shielded RS232 cable to the Rx only,
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> > > long wires left protruding from the connector
> > > (intended to change Rx ID easily) cause
> > > interference when holding my hand close (aluminum
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> > > to a much lesser degree with the RA6775 and
> > > RA1792 controlled using my own LabVIEW
> programs on the aforementioned laptop.
> > > This may indicate a defective digital board
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> > > relevant boards by Phill's Z80-based alternative.
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> > > Regards,
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> > > At 08:07 2013-04-16, reece_k1 wrote:
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> > > >I have now tried this and it runs showing the
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> > > >Bad ID", have sent an email to RxControl and waiting for a response.
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> > > >Thanks,
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> > > >
> > > <<http://rxcontrol.free.fr/RxControl/index.html>http://rxcontrol.free.fr/RxControl/index
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> > > > > Looks interesting!!
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> > > >

> > > >
> > >
> >
>
>

2167. Re: Software control program RA6790 & RA1792

Yahoo group: Racal6790GM
Date: 2013-04-16 13:16:57 UTC
From: reece_k1
Topic: 2160 Message: 2167

Hi, the software I am trying to use is:
http://rxcontrol.free.fr/ReceiverCtl/index.html
This starts ok, changes the radio automatically to remote then gets and displays the mode, frequency etc all correctly but flashes the ID error as well.
The W6GER Virtual radio software works fine, the only real problem I have with that is that I can't tune the frequency in CW mode with the bfo offset set to -1.70 (for example), the tuning dial only adjusts the bfo offset, most annoying.

Reece.

--- In Racal6790GM@yahoogroups.com, Raymond Boute <Raymond.Boute@...> wrote:
>
> Dear Reece,
>
> It seems you are using a tty-like program. For
> testing, I made a similar tty emulator in
> LabVIEW. However, the @000 commands in your
> e-mail look strange to me: I would have expected
> $ (specified by the Racal manual).
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> According to the Racal manual, if the Rx ID is
> 37, the first command you send to that Rx must
> start with $37. In further commands to the same
> Rx, $37 need not be repeated; for instance, just
> typing G <enter> makes the Rx return a list with
> the settings, and typing F10 <enter> sets the frequency to 10 MHz.
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> In your situation, perhaps tty.exe, downloadable
> from many places on the web and less capricious
> than Hyperterminal, might be a good tool for
> testing. Simpler is impossible: on the tty.exe
> window, first enter Settings (com port, baud
> rate, local echo as wanted), then Action
> (connect). Then type $37S2 <Enter> and check
> whether the Rx goes to remote. After that,
> commands like G <enter> and F6.3 <enter> should work as expected.
>
> Some minor details: insofar as I noticed, the Rx
> ignores LF after CR in a command. In replies,
> the Rx sends CR only. Another detail: when
> closing, a port disconnect action (e.g. in
> tty.exe) may be necessary. Otherwise, if you use
> the w6ger program afterwards, it complains about the port being open.
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> Regards,

> Raymond
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> >the ID set to 37:
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> Some corrections were made in the following (lines marked **)
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> >L D1-2 1
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> >------
> >P D2-1 1 Receiver ID MSD = 3 **
> >R D2-2 1
> >S D2-4 0 Connected to Gnd **
> >T D2-8 0 Connected to Gnd **
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> > > ------
> > > PD2-11Receiver ID MSD = 7
> > > RD2-21
> > > SD2-30Connected to Gnd
> > > TD2-40Connected to Gnd
> > >
> > > I don't think it's the radio ID since the
> > program is displaying the mode and frequency correctly.
> > > I have also checked the baud rate (WXYZ all 1's) etc all ok.
> > > The program produces a log:
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> > > => @0000000 TRY CONNECT
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> > > <- @00000520K37
> > >
> > > -> @0000000 S8
> > > -> @0000037 TD

```
> > > <- @0000053D3S1
> > >
> > > -> @0000000 S9
> > > -> @0000037 G
> > > <- @0000051F22.376D3I.4M7B-1.7A5S1
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> > > => Err:bad ID
> > >
> > > => @0000705 TRY CONNECT
> > > -> @0000000 S2
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> > > -> @0000000 S8
> > > -> @0000037 TD
> > > <- @0000053D3S1
> > >
> > > -> @0000000 S9
> > > -> @0000037 G
> > > <- @0000051F22.376D3I.4M7B-1.7A5S1
> > >
> > > => Err:bad ID
> > >
> > > => @0001144 TRY CONNECT
> > > -> @0000000 S2
> > > <- @0000078
> > > -> @0000000 S6
> > > <- @00000530K37
> > >
> > > -> @0000000 S8
> > > -> @0000037 TD
> > > <- @0000053D3S1
> > >
> > > -> @0000000 S9
> > > -> @0000037 G
> > > <- @0000051F22.376D3I.4M7B-1.7A5S1
> > >
> > > => Err:bad ID
> > >
> > > => @0001146 TRY CONNECT
> > > -> @0000000 S2
> > > <- @0000078
> > > -> @0000000 S6
> > > <- @00000530K37
> > >
> > > -> @0000000 S8
> > > -> @0000037 TD
> > > <- @0000053D3S1
> > >
```

> > > -> @0000000 S9
> > > -> @0000037 G
> > > <- @0000051F22.376D3I.4M7B-1.7A5S1
> > >
> > > => Err:bad ID
> > >
> > > => @0001144 TRY CONNECT
> > > -> @0000000 S2
> > > <- @0000079
> > > -> @0000000 S6
> > > <- @0000052OK37
> > >
> > > -> @0000000 S8
> > > -> @0000037 TD
> > > <- @0000053D3S1
> > >
> > > -> @0000000 S9
> > > -> @0000037 G
> > > <- @0000051F22.376D3I.4M7B-1.7A5S1
> > >
> > > => Err:bad ID
> > >
> > > I wouldn't have a clue what the above
> > signifies (I would guess the error is line @0000051).
> > >
> > > The links to A6A1 A6A2 are correct The DB9
> > pins are correct (only 2, 3, & 5 used)
> > >
> > > Rather baffling, the only 2 other things I don't know are:
> > >
> > > The BIOS EPROMS is a version that has the 30hz step changed to 10hz.
> > > The A6A1 board is the original, not the newer Z80 board.
> > >
> > > Thanks,
> > > Reece.
> > >
> > >
> > > --- In
> > <mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com,
> > Raymond Boute <Raymond.Boute@> wrote:
> > > >
> > > > Perhaps the Rx ID message is due to an ID code
> > > > that is not valid BCD. The acceptable codes are
> > > > described in the manuals (Fig. 2-11 or Table 2-6
> > > > depending on the issue). They are also listed in
> > > > Gary Wingerd's "setup and install" notes,
> > > > although there are errors in the table (column R missing).
> > > > Here is a summary of the correct BCD,
> > > > referring to the pins on the round Racal
> > > > connector. Pins KLMN encode the units, PRST the

> > > > tens, least significant bit leftmost. In other
> > > > words, the numeric ID is given by
> > > > ID = K + 2L + 4M + 8N + 10(P + 2R + 4S + 8T)
> > > > with the condition K + 2L + 4M + 8N < 10 and P +
> > > > 2R + 4S + 8T < 10 for valid BCD. For instance,
> > > > KLMN = 1110 and PRST = 1100 yields ID = 37 (Gary's example).
> > > > For each of these pins, value 0 is implemented by
> > > > connecting the pin to pin c (system ground),
> > > > value 1 by leaving the pin unconnected. So the
> > > > least number of ground connections corresponds to
> > > > ID = 77 (only N and T connected to ground).
> > > >
> > > > I also experienced the same problem as reported
> > > > by others: extreme interference from the
> > > > interface, detectable by other receivers. When
> > > > connecting a shielded RS232 cable to the Rx only,
> > > > interference is small, but a laptop (even with
> > > > battery removed) at the other end acts as an
> > > > effective local jamming antenna. Also a few 2 cm
> > > > long wires left protruding from the connector
> > > > (intended to change Rx ID easily) cause
> > > > interference when holding my hand close (aluminum
> > > > foil might help, but worse news follows).
> > > > When actually running the w6ger program, the
> > > > interference wipes out everything, making
> > > > reception impossible. Admittedly, all this is
> > > > with an indoor antenna, but these problems occur
> > > > to a much lesser degree with the RA6775 and
> > > > RA1792 controlled using my own LabVIEW
> > programs on the aforementioned laptop.
> > > > This may indicate a defective digital board
> > > > in the 6790. Perhaps I should replace both
> > > > relevant boards by Phill's Z80-based alternative.
> > > >
> > > > Regards,
> > > > Raymond.
> > > >
> > > > ================================
> > > >
> > > > At 08:07 2013-04-16, reece_k1 wrote:
> > > >
> > > > >I have now tried this and it runs showing the
> > > > >frequency, mode etc but flashes an error "Rx:
> > > > >Bad ID", have sent an email to RxControl and waiting for a response.
> > > > >Hopefully I can get it working, if anyone else
> > > > >can give it a go I would appreciate it.
> > > > >
> > > > >Thanks,
> > > > >Reece.
> > > > >

> > > > >--- In
> > > > ><mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com,
> > > > >"reece_k1" <reece_k1@> wrote:
> > > > > >
> > > > > > Hi, I haven't tried this as yet, not sure
> > > > > when I will get around to it but whilst
> > > > > searching for control software I came across this:
> > > > > >
> > > > > >
> > <<http://rxcontrol.free.fr/RxControl/index.html>http://rxcontrol.free.fr/RxControl/ind
ex.html>http://rxcontrol.free.fr/RxControl/index.html
> > > > > > Looks interesting!!
> > > > > > >
> > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >
>

2168. RxControl software

Yahoo group: Racal6790GM
Date: 2013-04-17 01:36:35 UTC
From: reece_k1
Topic: 2168 Message: 2168

I got an email back from Bertrand the maker of RxControl, seems that the problem lies with the EPROM set, It is looking for the S-meter reading but getting an incorrect response.
His software was made for the A09666 ROMS, the A08449 is not compatible, mine has a set from Dan Rae that has the 30-10hz fix, what version that one is based on I don't know but he is working on a new version that will work with the A08449, very kind of him.
He thinks that this may be the problem with the W6GER Virtual control software that I have been having regarding the CW/BFO mode.
I will report back as things develop.

Reece.

2169. Re: RxControl software

Yahoo group: Racal6790GM
Date: 2013-04-22 00:07:56 UTC
From: reece_k1
Topic: 2168 Message: 2169

Bertrand has updated the software:
http://rxcontrol.free.fr/RxControl/index.html
I no longer get the flashing error message however I am still getting some problems, mainly when the program is running but still locked (local), when tuning the radio dial all sorts of weird things are happening:
jumping between local and remote.
change to CW mode then jumps back to USB.
Would be nice if someone else checked this out to confirm if this is common or my machine only.
What disturbs me is that the program reports my EPROM version as being A08449 with either the standard or VLF version, I am thinking of getting an EPROM burner to check this out.

Reece.

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
> I got an email back from Bertrand the maker of RxControl, seems that the problem lies with the EPROM set, It is looking for the S-meter reading but getting an incorrect response.
> His software was made for the A09666 ROMS, the A08449 is not compatible, mine has a set from Dan Rae that has the 30-10hz fix, what version that one is based on I don't know but he is working on a new version that will work with the A08449, very kind of him.
> He thinks that this may be the problem with the W6GER Virtual control software that I have been having regarding the CW/BFO mode.
> I will report back as things develop.
>
> Reece.
>

2170. Re: [Racal6790GM] Re: RxControl software

Yahoo group: Racal6790GM
Date: 2013-04-22 06:46:56 UTC
From: Raymond Boute
Topic: 2168 Message: 2170

Dear Reece,

When "breadboarding" (software-wise) control
software for the RA1792, I had to do things that
seem weird, like switching back and forth between
local and remote to "follow" the tuning
knob. The reason was that reading the frequency
from the receiver caused switching to "remote",
which also made the tuning knob ineffective,
necessitating switching back to "local". So a
polling cycle consisted of reading the frequency
and then switching back to "local". As far as I
remember, about 5 polling cycles per second was a
reasonable rate. Maybe this helps seeing what happens in your situation.

Regards,
Raymond

At 02:07 2013-04-22, reece_k1 wrote:
>
>
>Bertrand has updated the software:
><http://rxcontrol.free.fr/RxControl/index.html>http://rxcontrol.free.fr/RxControl/index.h
tml
>I no longer get the flashing error message
>however I am still getting some problems, mainly
>when the program is running but still locked
>(local), when tuning the radio dial all sorts of weird things are happening:
>jumping between local and remote.
>change to CW mode then jumps back to USB.
>Would be nice if someone else checked this out
>to confirm if this is common or my machine only.
>What disturbs me is that the program reports my
>EPROM version as being A08449 with either the
>standard or VLF version, I am thinking of
>getting an EPROM burner to check this out.
>
>Reece.
>
>--- In
><mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com,
>"reece_k1" <reece_k1@...> wrote:
> >
> > I got an email back from Bertrand the maker
> of RxControl, seems that the problem lies with
> the EPROM set, It is looking for the S-meter

> reading but getting an incorrect response.
> > His software was made for the A09666 ROMS,
> the A08449 is not compatible, mine has a set
> from Dan Rae that has the 30-10hz fix, what
> version that one is based on I don't know but
> he is working on a new version that will work
> with the A08449, very kind of him.
> > He thinks that this may be the problem with
> the W6GER Virtual control software that I have
> been having regarding the CW/BFO mode.
> > I will report back as things develop.
> >
> > Reece.
> >
>
>

2171. Re: RxControl software

Yahoo group: Racal6790GM
Date: 2013-04-22 08:05:52 UTC
From: reece_k1
Topic: 2168 Message: 2171

Hi Raymond, that sort of explains it, but if I don't touch the dial the radio stays in local, if I move the dial no change, but if I change mode (USB etc) then the radio flashes remote. Maybe when I move the dial only it is so fast that it doesn't show on the display. Seems weird!!
Pity there is no way of saving the settings. (BFO settings etc) not that I can see anyway.

Reece.

--- In Racal6790GM@yahoogroups.com, Raymond Boute <Raymond.Boute@...> wrote:
>
> Dear Reece,
>
> When "breadboarding" (software-wise) control
> software for the RA1792, I had to do things that
> seem weird, like switching back and forth between
> local and remote to "follow" the tuning
> knob. The reason was that reading the frequency
> from the receiver caused switching to "remote",
> which also made the tuning knob ineffective,
> necessitating switching back to "local". So a
> polling cycle consisted of reading the frequency
> and then switching back to "local". As far as I
> remember, about 5 polling cycles per second was a
> reasonable rate. Maybe this helps seeing what happens in your situation.
>
> Regards,
> Raymond
>
> At 02:07 2013-04-22, reece_k1 wrote:
> >
> >
> >Bertrand has updated the software:
> ><http://rxcontrol.free.fr/RxControl/index.html>http://rxcontrol.free.fr/RxControl/index.html
> >I no longer get the flashing error message
> >however I am still getting some problems, mainly
> >when the program is running but still locked
> >(local), when tuning the radio dial all sorts of weird things are happening:
> >jumping between local and remote.
> >change to CW mode then jumps back to USB.
> >Would be nice if someone else checked this out
> >to confirm if this is common or my machine only.
> >What disturbs me is that the program reports my
> >EPROM version as being A08449 with either the
> >standard or VLF version, I am thinking of

> >getting an EPROM burner to check this out.
> >
> >Reece.
> >
> >--- In
> ><mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com,
> >"reece_k1" <reece_k1@> wrote:
> > >
> > > I got an email back from Bertrand the maker
> > of RxControl, seems that the problem lies with
> > the EPROM set, It is looking for the S-meter
> > reading but getting an incorrect response.
> > > His software was made for the A09666 ROMS,
> > the A08449 is not compatible, mine has a set
> > from Dan Rae that has the 30-10hz fix, what
> > version that one is based on I don't know but
> > he is working on a new version that will work
> > with the A08449, very kind of him.
> > > He thinks that this may be the problem with
> > the W6GER Virtual control software that I have
> > been having regarding the CW/BFO mode.
> > > I will report back as things develop.
> > >
> > > Reece.
> > >
> >
> >
>

2172. Re: RA6790/GM VIRTUAL RECEIVER Software

Yahoo group: Racal6790GM
Date: 2013-04-21 16:45:55 UTC
From: pidxr
Topic: 2150 Message: 2172

I have experienced the same issue. Asked if the author could take a look at it but no joy. Asked for source code but no joy. Great program otherwise!

Mike
K7PI

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
> Has anyone been able to use the main dial to adjust the frequency in CW mode using this software?
> This is the only ssb mode that you can change the bandwidth to suit various signals.
>

2173. Re: RA6790/GM VIRTUAL RECEIVER Software

Yahoo group: Racal6790GM
Date: 2013-04-22 11:18:06 UTC
From: reece_k1
Topic: 2150 Message: 2173

Hi Mike, yes there are a few programs about but all seem to have area's that don't work properly.
The only one that works fairly well is the Sorcerer, it has a simple interface but a problem with selecting the narrow filter (400Hz) this is easily worked around.
It is a multimode decoder that has built in control software for the 6790/GM. The company that produced the program has been dissolved/liquidated back in 2010, as far as I know the program is basically free now!!
One thing that is annoying is that the address is fixed at 10 (Hex).
I used a few signal diodes and a SPST switch to change between addresses.

I am having too many issues with RxControl, need someone else to try it out (hint, hint) so I know if it is just my radio.

Reece.

--- In Racal6790GM@yahoogroups.com, "pidxr" <bipi@...> wrote:
>
> I have experienced the same issue. Asked if the author could take a look at it but no joy. Asked for source code but no joy. Great program otherwise!
>
> Mike
> K7PI
>
> --- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@> wrote:
> >
> > Has anyone been able to use the main dial to adjust the frequency in CW mode using this software?
> > This is the only ssb mode that you can change the bandwidth to suit various signals.
> >
>

2174. Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-24 11:33:31 UTC
From: reece_k1
Topic: 2174 Message: 2174

I would like to remove the 18Khz filter (Don't use FM) and replace with one around 2.4khz, is it ok to make an adapter pcb for Icom type to fit the RA6790 Filter slot using a FL-44A (455khz cf)?

Reece.

2175. Re: [Racal6790GM] Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-24 13:33:16 UTC
From: mstangelo@...
Topic: 2174 Message: 2175

Reece,

It should work.

I installed a Collins mechanical filter with an adapter board and it worked well after running the self-test.

Mike N2MS

----- Original Message -----
From: reece_k1 <reece_k1@...>
To: Racal6790GM@yahoogroups.com
Sent: Wed, 24 Apr 2013 11:33:31 -0000 (UTC)
Subject: [Racal6790GM] Icom crystal filters

I would like to remove the 18Khz filter (Don't use FM) and replace with one around 2.4khz, is it ok to make an adapter pcb for Icom type to fit the RA6790 Filter slot using a FL-44A (455khz cf)?

Reece.

Yahoo! Groups Links

2176. RE: [Racal6790GM] Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-24 17:11:29 UTC
From: KR4HV
Topic: 2174 Message: 2176
Attachments: 1 described; binary payloads are missing from this source WARC

Reece, I have attached a file for you to review. Look on page 3. Collins makes an "economy" line if mechanical filters that sell for ~100USD.

You can see their current listings for these in the Rockwell Collins site.

73,

Walt

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of reece_k1
Sent: Wednesday, April 24, 2013 7:34 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Icom crystal filters

I would like to remove the 18Khz filter (Don't use FM) and replace with one around 2.4khz, is it ok to make an adapter pcb for Icom type to fit the RA6790 Filter slot using a FL-44A (455khz cf)?

Reece.

2177. Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-25 02:10:18 UTC
From: reece_k1
Topic: 2174 Message: 2177

Hi, the only Rockwell Collins site I could find had nothing to do with filters, I searched for the part number "526-8635-010" but found nothing. The pdf file has phone number and address but not worth the hassles here in Australia.

Reece.

--- In Racal6790GM@yahoogroups.com, "KR4HV" <kr4hv@...> wrote:
>
> Reece, I have attached a file for you to review. Look on page 3. Collins
> makes an "economy" line if mechanical filters that sell for ~100USD.
>
>
>
> You can see their current listings for these in the Rockwell Collins site.
>
>
>
> 73,
>
> Walt
>
>
>
> From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
> Behalf Of reece_k1
> Sent: Wednesday, April 24, 2013 7:34 AM
> To: Racal6790GM@...m
> Subject: [Racal6790GM] Icom crystal filters
>
>
>
>
>
>
> I would like to remove the 18Khz filter (Don't use FM) and replace with one
> around 2.4khz, is it ok to make an adapter pcb for Icom type to fit the
> RA6790 Filter slot using a FL-44A (455khz cf)?
>
> Reece.
>

2178. Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-25 02:12:23 UTC
From: reece_k1
Topic: 2174 Message: 2178

Hi, I can't seem to find any Collins types that are suitable, might have to stick to crystal filters, though they are around $150.

Reece.

--- In Racal6790GM@yahoogroups.com, mstangelo@... wrote:
>
> Reece,
>
> It should work.
>
> I installed a Collins mechanical filter with an adapter board and it worked well after running the self-test.
>
> Mike N2MS
>
> ----- Original Message -----
> From: reece_k1 <reece_k1@...>
> To: Racal6790GM@yahoogroups.com
> Sent: Wed, 24 Apr 2013 11:33:31 -0000 (UTC)
> Subject: [Racal6790GM] Icom crystal filters
>
> I would like to remove the 18Khz filter (Don't use FM) and replace with one around 2.4khz, is it ok to make an adapter pcb for Icom type to fit the RA6790 Filter slot using a FL-44A (455khz cf)?
>
> Reece.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

2179. Re: [Racal6790GM] Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-25 02:21:07 UTC
From: mstangelo@...
Topic: 2174 Message: 2179

Reece,

I has some surplus Collins filters. The ICOM should work.

Mike N2MS
----- Original Message -----
From: reece_k1 <reece_k1@...>
To: Racal6790GM@yahoogroups.com
Sent: Thu, 25 Apr 2013 02:12:23 -0000 (UTC)
Subject: [Racal6790GM] Re: Icom crystal filters

Hi, I can't seem to find any Collins types that are suitable, might have to stick to crystal filters, though they are around $150.

Reece.

--- In Racal6790GM@yahoogroups.com, mstangelo@... wrote:
>
> Reece,
>
> It should work.
>
> I installed a Collins mechanical filter with an adapter board and it worked well after running the self-test.
>
> Mike N2MS
>
> ----- Original Message -----
> From: reece_k1 <reece_k1@...>
> To: Racal6790GM@yahoogroups.com
> Sent: Wed, 24 Apr 2013 11:33:31 -0000 (UTC)
> Subject: [Racal6790GM] Icom crystal filters
>
> I would like to remove the 18Khz filter (Don't use FM) and replace with one around 2.4khz, is it ok to make an adapter pcb for Icom type to fit the RA6790 Filter slot using a FL-44A (455khz cf)?
>
> Reece.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

Yahoo! Groups Links

2180. Re: [Racal6790GM] Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-25 02:26:52 UTC
From: mstangelo@...
Topic: 2174 Message: 2180

Reece,

International Radio, INRAD,has Collins mechanical filters:

<http://www.qth.com/inrad/>

Mike N2MS
----- Original Message -----
From: reece_k1 <reece_k1@...>
To: Racal6790GM@yahoogroups.com
Sent: Thu, 25 Apr 2013 02:10:18 -0000 (UTC)
Subject: [Racal6790GM] Re: Icom crystal filters

Hi, the only Rockwell Collins site I could find had nothing to do with filters, I searched for the part number "526-8635-010" but found nothing. The pdf file has phone number and address but not worth the hassles here in Australia.

Reece.

--- In Racal6790GM@yahoogroups.com, "KR4HV" <kr4hv@...> wrote:
>
> Reece, I have attached a file for you to review. Look on page 3. Collins
> makes an "economy" line if mechanical filters that sell for ~100USD.
>
>
>
> You can see their current listings for these in the Rockwell Collins site.
>
>
>
> 73,
>
> Walt
>
>
>
> From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
> Behalf Of reece_k1
> Sent: Wednesday, April 24, 2013 7:34 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Icom crystal filters
>
>
>
>
>

> I would like to remove the 18Khz filter (Don't use FM) and replace with one
> around 2.4khz, is it ok to make an adapter pcb for Icom type to fit the
> RA6790 Filter slot using a FL-44A (455khz cf)?
>
> Reece.
>

2181. Re: [Racal6790GM] Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-25 02:27:44 UTC
From: ka9p@...
Topic: 2174 Message: 2181

Reece - I believe this is the current filter site. I doubt they are really inexpensive anymore, I bought one of the low cost ones ten years ago and it was 80 dollars US, and I expect these are what are repackaged on the INRAD site at 140-170 bucks a piece as well.

Is your issue that you don't have an SSB filter, or that you need a medium band width SSB filter, or does it have to be mechanical, or?

I was excited that you were going t try the FL44 and curious to hear how it worked :)

Scott

http://www.rockwellcollins.com/Capabilities_and_Markets/More/Precision_Manufacturing/Rockwell_Collins_Filters.aspx

In a message dated 4/24/2013 9:10:22 P.M. Central Daylight Time, reece_k1@... writes:

Hi, the only Rockwell Collins site I could find had nothing to do with filters, I searched for the part number "526-8635-010" but found nothing. The pdf file has phone number and address but not worth the hassles here in Australia.

Reece.

--- In Racal6790GM@yahoogroups.com, "KR4HV" <kr4hv@...> wrote:
>
> Reece, I have attached a file for you to review. Look on page 3. Collins
> makes an "economy" line if mechanical filters that sell for ~100USD.
>
>
>
> You can see their current listings for these in the Rockwell Collins site.
>
>
>
> 73,
>
> Walt
>
>
>
> From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
> Behalf Of reece_k1
> Sent: Wednesday, April 24, 2013 7:34 AM

> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Icom crystal filters
>
>
>
>
>
> I would like to remove the 18Khz filter (Don't use FM) and replace with
one
> around 2.4khz, is it ok to make an adapter pcb for Icom type to fit the
> RA6790 Filter slot using a FL-44A (455khz cf)?
>
> Reece.
>

Yahoo! Groups Links

2182. Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-26 12:42:07 UTC
From: reece_k1
Topic: 2174 Message: 2182

Hi thanks for all the info.
I am not up to all the various Collins mechanical filter types, I can get this one "Collins mechanical filter 526 9427 000, F 455 FA 21" for around $110 incl freight but I am not sure of the accompanying circuit and component sizes needed. Maybe I should just pay the extra and use a crystal filter.
A lot of the filters I find are 526-9xxx or 526-8xxx, none of these come up on the Rockwell site search.
How do you know which ones are torsion filters?

Reece.

--- In Racal6790GM@yahoogroups.com, ka9p@... wrote:
>
> Reece - I believe this is the current filter site. I doubt they are really
> inexpensive anymore, I bought one of the low cost ones ten years ago and
> it was 80 dollars US, and I expect these are what are repackaged on the
> INRAD site at 140-170 bucks a piece as well.
>
> Is your issue that you don't have an SSB filter, or that you need a
> medium band width SSB filter, or does it have to be mechanical, or?
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> I was excited that you were going t try the FL44 and curious to hear how
> it worked :)
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> Scott
>
> http://www.rockwellcollins.com/Capabilities_and_Markets/More/Precision_Manuf
> acturing/Rockwell_Collins_Filters.aspx
>
>
> In a message dated 4/24/2013 9:10:22 P.M. Central Daylight Time,
> reece_k1@... writes:
>
> Hi, the only Rockwell Collins site I could find had nothing to do with
> filters, I searched for the part number "526-8635-010" but found nothing. The
> pdf file has phone number and address but not worth the hassles here in
> Australia.
>
> Reece.
>
>
> --- In Racal6790GM@yahoogroups.com, "KR4HV" <kr4hv@> wrote:
> >
> > Reece, I have attached a file for you to review. Look on page 3. Collins
> > makes an "economy" line if mechanical filters that sell for ~100USD.

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> > You can see their current listings for these in the Rockwell Collins
> site.
> >
> >
> >
> > 73,
> >
> > Walt
> >
> >
> >
> > From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
> > Behalf Of reece_k1
> > Sent: Wednesday, April 24, 2013 7:34 AM
> > To: Racal6790GM@yahoogroups.com
> > Subject: [Racal6790GM] Icom crystal filters
> >
> >
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> > I would like to remove the 18Khz filter (Don't use FM) and replace with
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> > Reece.
> >
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> ------------------------------------
>
> Yahoo! Groups Links
>

2183. Re: [Racal6790GM] Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-26 13:02:31 UTC
From: mstangelo@...
Topic: 2174 Message: 2183

Reece,

All Collins filters are torsion filters.

Have you checked ebay and eham for 455kHz crystal filters? Whn Hams sell their rigs they usually sell filters separately since the parts fetch a higher price than s complete rig.

What bandwidth are you looking for?

Mike N2MS
----- Original Message -----
From: reece_k1 <reece_k1@...>
To: Racal6790GM@yahoogroups.com
Sent: Fri, 26 Apr 2013 12:42:07 -0000 (UTC)
Subject: [Racal6790GM] Re: Icom crystal filters

Hi thanks for all the info.
I am not up to all the various Collins mechanical filter types, I can get this one "Collins mechanical filter 526 9427 000, F 455 FA 21" for around $110 incl freight but I am not sure of the accompanying circuit and component sizes needed. Maybe I should just pay the extra and use a crystal filter.
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> > You can see their current listings for these in the Rockwell Collins
> site.
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> >
> >
> > 73,
> >
> > Walt

2184. IF filters

Yahoo group: Racal6790GM
Date: 2013-04-26 13:17:44 UTC
From: Raymond Boute
Topic: 2174 Message: 2184

The following article (which I lost and found
again) is worth sharing with all those interested in IF filters:
http://www.puehler-electronic.de/Rockwell-COLLINS-mec.IF-Fi-4KHz.pdf
It does not contain just specs, but also a full
tutorial on filters (discussing impedances,
working and saturation levels, losses etc.). AFAIK, Puehler still exists.
73
Raymond ON4DBV

==========

At 14:42 2013-04-26, reece_k1 wrote:
>
>
>Hi thanks for all the info.
>I am not up to all the various Collins
>mechanical filter types, I can get this one
>"Collins mechanical filter 526 9427 000, F 455
>FA 21" for around $110 incl freight but I am not
>sure of the accompanying circuit and component
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> <http://www.rockwellcollins.com/Capabilities_and_Markets/More/Precision_Manuf>http://www
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> > > From:
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> [mailto:Racal6790GM@yahoogroups.com] On
> > > Behalf Of reece_k1
> > > Sent: Wednesday, April 24, 2013 7:34 AM
> > > To: <mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@...m
> > > Subject: [Racal6790GM] Icom crystal filters
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> >
> > Yahoo! Groups Links
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2185. 6790 acting odd

Yahoo group: Racal6790GM
Date: 2013-04-26 15:04:22 UTC
From: squinn12345
Topic: 2185 Message: 2185

I have several milspec rigs, including this RACAL and the R390A an old friend from my day in Navy Intelligence, Signal Intercept.

Ok with that out of the way, my 6790 will turn on just fine and run great, but lately I get all kinds of junk in the LED display and at times the tuning knob is frozen.

It does not happen all the time..... power supply looks ok and the battery appears ok, no leaks I can see

Now the odd ball thing, if I run the BITE test everything is ok with no error codes displayed..... and after I run the BITE test the rig works A-OK ..... hummmmmmmmmmmmmmmmmmm

So my question is, what is the BITE test doing to "clear-out" whatever is causing the malfunction..... at time the Fault light comes on but not always .....

THanks, pulling my hair out here in Cincinnati

Steve Q

2186. Re: [Racal6790GM] 6790 acting odd

Yahoo group: Racal6790GM
Date: 2013-04-26 15:11:58 UTC
From: <ken@...>
Topic: 2185 Message: 2186

Another SigInt guy. I was a ComInt guy, had 3 R-390s at my position in the Navy. The main position had two R-390s and a Racal that looked something like an R-388.

So when the opportunity to buy a Racal receiver came up, I jumped at it. I've never been so disappointed in a receiver. When it worked, it was great. But it's has a myriad of problems that render it useless now. Between battery oozing and bad capacitors, I've spent almost $300 to get it fixed; and now it's even worse; will hardly do anything; won't run BITE, display frozen, etc. etc. etc. . It's been in a closet for over a year. I don't want to throw it away because I have so much money in it. I no longer have the equipment or skills to fix it myself and outsourcing is extremely expensive.

Ken

From: squinn12345
Sent: Friday, April 26, 2013 9:04 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790 acting odd

I have several milspec rigs, including this RACAL and the R390A an old friend from my day in Navy Intelligence, Signal Intercept.

Ok with that out of the way, my 6790 will turn on just fine and run great, but lately I get all kinds of junk in the LED display and at times the tuning knob is frozen.

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Steve Q

2187. Re: [Racal6790GM] 6790 acting odd

Yahoo group: Racal6790GM
Date: 2013-04-26 15:18:52 UTC
From: toddroberts2001@...
Topic: 2185 Message: 2187

The trouble could be a low battery. I have seen 6790's act odd with a low battery, but after replacing it with a new one they ran fine. You can't tell
anything about a battery by looking at it, except if it leaks or not.

Are there any green traces on the A6A2 board around the battery area? Does it have the original NiCd battery or one of the newer Varta NiMH batteries? If it still has one of the original NiCd batteries it is long overdue for replacement. The battery could have been slowly leaking onto the traces over the years and cause leakage between traces and even partial short circuits which could cause the receiver to act flaky.

The battery would be a good starting point to troubleshoot the radio. It couldn't hurt to replace it with a new one and make sure the small traces on the A6A2 board around the battery are clean and shiny.

73 - Todd WD4NGG

In a message dated 4/26/2013 11:04:27 A.M. Eastern Daylight Time, squinn12345@... writes:
I have several milspec rigs, including this RACAL and the R390A an old friend from my day in Navy Intelligence, Signal Intercept.

Ok with that out of the way, my 6790 will turn on just fine and run great, but lately I get all kinds of junk in the LED display and at times the tuning knob is frozen.

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So my question is, what is the BITE test doing to "clear-out" whatever is causing the malfunction...... at time the Fault light comes on but not always ....

THanks, pulling my hair out here in Cincinnati

Steve Q

2188. RE: [Racal6790GM] Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-26 15:31:06 UTC
From: KR4HV
Topic: 2174 Message: 2188
Attachments: 4 described; binary payloads are missing from this source WARC

http://www.rockwellcollins.com/Capabilities_and_Markets/More/Precision_Manuf
acturing/Rockwell_Collins_Filters.aspx

Here is the current (as of today) web site for Collins filters. Look at the
"Low Cost" listing. The available band widths are listed and you can review
the specs and pricing by drilling down.

Look at page 3 in Dallas Lankford's attached article for exact installation
instructions.

The instructions and the filters worked very well for me.

It won't get any easier than this.

BTW, if you install other than these types of filters per the instructions
(or the original Racal crystal filters or the original Collins filter models
that Racal also used-if you can find any) you will have to either calculate,
test and or measure by trial and error to obtain the correct matches.
Otherwise your performance may well suffer. Dallas has already done that for
the "lower cost" line of Collins Mechanical filters.

Gary Wingerd has the info on the Collins filters that Racal used in some
versions of the 6790, but they are near impossible to find and probably
expensive if found.

KR4HV

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
Behalf Of reece_k1
Sent: Friday, April 26, 2013 8:42 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Icom crystal filters

Hi thanks for all the info.
I am not up to all the various Collins mechanical filter types, I can get
this one "Collins mechanical filter 526 9427 000, F 455 FA 21" for around
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component sizes needed. Maybe I should just pay the extra and use a crystal
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A lot of the filters I find are 526-9xxx or 526-8xxx, none of these come up
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How do you know which ones are torsion filters?

Reece.

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> Is your issue that you don't have an SSB filter, or that you need a
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> I was excited that you were going t try the FL44 and curious to hear how
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2189. RE: [Racal6790GM] Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-26 15:33:07 UTC
From: KR4HV
Topic: 2174 Message: 2189
Attachments: 2 described; binary payloads are missing from this source WARC

Sorry, here are the attachments.

KR4HV

From: KR4HV [mailto:kr4hv@...]
Sent: Friday, April 26, 2013 11:31 AM
To: 'Racal6790GM@yahoogroups.com'
Subject: RE: [Racal6790GM] Re: Icom crystal filters

http://www.rockwellcollins.com/Capabilities_and_Markets/More/Precision_Manufacturing/Rockwell_Collins_Filters.aspx

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Gary Wingerd has the info on the Collins filters that Racal used in some versions of the 6790, but they are near impossible to find and probably expensive if found.

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From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of reece_k1
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To: Racal6790GM@yahoogroups.com
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2190. Re: [Racal6790GM] 6790 acting odd

Yahoo group: Racal6790GM
Date: 2013-04-26 15:35:51 UTC
From: Steve Quinn
Topic: 2185 Message: 2190

Hello Ken: By the words and rigs you used I would guess you were in in the mid to late 1970s, the RACALs did not show up on my wathc during the late 1960s-early 1970's and we did not us the SigInt term ..... was station in Misawa Japan on an Air Force base most of my time in ..... you figure ....it was good duty we were a small detachment of around 60-70 people but now I understand the Navy in Misawa is almost 3,000 with a complete air wing ..... ah the good old days ..... right

All the best, where were you stationed

Steve Q

The RACAL is a nice rig and it is solid but my hands always go back to the old friend of R390A..... used it alot to do DF on the Ruskies and a time and place called Vietnam

All the best

From: "ken@..." <ken@kenandjudy.us>
To: Racal6790GM@yahoogroups.com
Sent: Friday, April 26, 2013 11:11 AM
Subject: Re: [Racal6790GM] 6790 acting odd

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Ken
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To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790 acting odd

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time the Fault light comes on but not always .....

THanks, pulling my
hair out here in Cincinnati

Steve Q

2191. Re: [Racal6790GM] 6790 acting odd

Yahoo group: Racal6790GM
Date: 2013-04-26 15:38:40 UTC
From: Steve Quinn
Topic: 2185 Message: 2191

Thanks so much Todd, the rig was upgrade with VLF proms around 2003 or so and the batter is a Varta I think, my memory is gone for certain (ha,ha,ha) I agree, I will start with a new battery ..... where do I get one, I saw on at American milspec site and maybe Toronto surplus

No green traces I can see, but even if the battery was replaced in the 2003 that is 10 years ago ..... so I will go after the battery and see what happens

Thanks for the help

Steve Q

From: "toddroberts2001@..." <toddroberts2001@...>
To: Racal6790GM@yahoogroups.com
Sent: Friday, April 26, 2013 11:18 AM
Subject: Re: [Racal6790GM] 6790 acting odd

The trouble could be a low battery. I have seen 6790's act odd with a low battery, but after replacing it with a new one they ran fine. You can't tell
anything about a battery by looking at it, except if it leaks or not.

Are there any green traces on the A6A2 board around the battery area? Does it have the original NiCd battery or one of the newer Varta NiMH batteries? If it still has one of the original NiCd batteries it is long overdue for replacement. The battery could have been slowly leaking onto the traces over the years and cause leakage between traces and even partial short circuits which could cause the receiver to act flaky.

The battery would be a good starting point to troubleshoot the radio. It couldn't hurt to replace it with a new one and make sure the small traces on the A6A2 board around the battery are clean and shiny.

73 - Todd WD4NGG

In a message dated 4/26/2013 11:04:27 A.M. Eastern Daylight Time, squinn12345@... writes:
I have several milspec rigs, including this RACAL and the R390A an old friend from my day in Navy Intelligence, Signal Intercept.

Ok with that out of the way, my 6790 will turn on just fine and run great, but lately I get all kinds of junk in the LED display and at times the tuning knob is frozen.

It does not happen all the time..... power supply looks ok and the battery appears ok, no leaks I can see

Now the odd ball thing, if I run the BITE test everything is ok with no error codes displayed..... and after I run the BITE test the rig works A-OK ..... hummmmmmmmmmmmmmmmmm

So my question is, what is the BITE test doing to "clear-out" whatever is causing the malfunction..... at time the Fault light comes on but not always .....

THanks, pulling my hair out here in Cincinnati

Steve Q

Yahoo! Groups Links

http://docs.yahoo.com/info/terms/

2192. Re: [Racal6790GM] 6790 acting odd

Yahoo group: Racal6790GM
Date: 2013-04-26 15:49:33 UTC
From: <ken@...>
Topic: 2185 Message: 2192

I went to Comm Tech “A” school in Pensacola and then stationed in Homestead, Florida at the AFB, although I rarely went onto the base. Our site was south of Homestead on Card Sound Road. I was there from early 1968 to early 1971. They offered early-outs since the war was winding down and I took it.

The Racal at the head position wasn’t like the Racal we have now. It was tube-type and looked much like the old 388. But I remembered how much I liked it and how the tuning wasn’t mechanical like a 390.

Ken

From: Steve Quinn
Sent: Friday, April 26, 2013 9:35 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] 6790 acting odd

Hello Ken: By the words and rigs you used I would guess you were in in the mid to late 1970s, the RACALs did not show up on my wathc during the late 1960s-early 1970's and we did not us the SigInt term ..... was station in Misawa Japan on an Air Force base most of my time in ..... you figure ....it was good duty we were a small detachment of around 60-70 people but now I understand the Navy in Misawa is almost 3,000 with a complete air wing ..... ah the good old days ..... right

All the best, where were you stationed

Steve Q

The RACAL is a nice rig and it is solid but my hands always go back to the old friend of R390A..... used it alot to do DF on the Ruskies and a time and place called Vietnam

All the best

From: "ken@..." <ken@...>
To: Racal6790GM@yahoogroups.com
Sent: Friday, April 26, 2013 11:11 AM
Subject: Re: [Racal6790GM] 6790 acting odd

Another SigInt guy. I was a ComInt guy, had 3 R-390s at my position in the Navy. The main position had two R-390s and a Racal that looked something like an R-388.

So when the opportunity to buy a Racal receiver came up, I jumped at it. I’ve never been so disappointed in a receiver. When it worked, it was great. But it’s has a myriad of problems that render it useless now. Between battery oozing and bad capacitors, I’ve spent almost $300 to get it fixed; and now it’s even worse; will hardly do anything; won’t run BITE, display frozen, etc. etc. etc. . It’s been in a closet for over a year. I don’t want to throw it away because I have so much money in it. I no longer have the equipment or skills to fix it myself and outsourcing is extremely expensive.

Ken

From: squinn12345
Sent: Friday, April 26, 2013 9:04 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790 acting odd

I have several milspec rigs, including this RACAL and the R390A an old friend from my day in Navy Intelligence, Signal Intercept.

Ok with that out of the way, my 6790 will turn on just fine and run great, but lately I get all kinds of junk in the LED display and at times the tuning knob is frozen.

It does not happen all the time..... power supply looks ok and the battery appears ok, no leaks I can see

Now the odd ball thing, if I run the BITE test everything is ok with no error codes displayed..... and after I run the BITE test the rig works A-OK ..... hummmmmmmmmmmmmmmmmmm

So my question is, what is the BITE test doing to "clear-out" whatever is causing the malfunction..... at time the Fault light comes on but not always .....

THanks, pulling my hair out here in Cincinnati

Steve Q

2193. Re: [Racal6790GM] 6790 acting odd

Yahoo group: Racal6790GM
Date: 2013-04-26 16:01:31 UTC
From: Steve Quinn
Topic: 2185 Message: 2193

Ah I was wrong so we were in the same time, Corry Field in Pensacola (spelling?) (1969-1972 for me) Yes indeed the tube type RACAL but did not see those as I was trained in Morse Code but worked alot in the "T" branch area ..... same deal on the early out as Vietnam was ending ..... last days were on the USS Ranger CVA-61, of all places off the ocast of Vietnam.

All the best

Steve Q

From: "ken@..." <ken@...>
To: Racal6790GM@yahoogroups.com
Sent: Friday, April 26, 2013 11:49 AM
Subject: Re: [Racal6790GM] 6790 acting odd

I went to Comm Tech “A” school in Pensacola and then stationed in Homestead, Florida at the AFB, although I rarely went onto the base. Our site was south of Homestead on Card Sound Road. I was there from early 1968 to early 1971. They offered early-outs since the war was winding down and I took it.

The Racal at the head position wasn’t like the Racal we have now. It was tube-type and looked much like the old 388. But I remembered how much I liked it and how the tuning wasn’t mechanical like a 390.

Ken

From: Steve Quinn
Sent: Friday, April 26, 2013 9:35 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] 6790 acting odd

Hello Ken: By the words and rigs you used I would guess you were in in the mid to late 1970s, the RACALs did not show up on my wathc during the late 1960s-early 1970's and we did not us the SigInt term ..... was station in Misawa Japan on an Air Force base most of my time in ..... you figure ....it was good duty we were a small detachment of around 60-70 people but now I understand the Navy in Misawa is almost 3,000 with a complete air wing ..... ah the good old days ..... right

All
the best, where were you stationed

Steve
Q

The
RACAL is a nice rig and it is solid but my hands always go back to the old friend of R390A..... used it alot to do DF on the Ruskies and a time and place called Vietnam

All
the best

_____
From: "ken@..." <ken@kenandjudy.us>
To: Racal6790GM@yahoogroups.com
Sent: Friday, April 26, 2013
11:11 AM
Subject: Re:
[Racal6790GM] 6790 acting odd

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To: Racal6790GM@yahoogroups.com
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Now the odd ball
thing, if I run the BITE test everything is ok with no error codes displayed..... and after I run the BITE test the rig works A-OK ..... hummmmmmmmmmmmmmmmmm

So my question is, what is
the BITE test doing to "clear-out" whatever is causing the malfunction..... at
time the Fault light comes on but not always ....

THanks, pulling my
hair out here in Cincinnati

Steve
Q

2194. Re: [Racal6790GM] 6790 acting odd

Yahoo group: Racal6790GM
Date: 2013-04-26 16:03:22 UTC
From: Steve Quinn
Topic: 2185 Message: 2194

Oops Misawa, is located in Northern Japan if you did not recognize the AF base.... the tzanami that hit a few years ago hit about 50 miles south of Misawa, (Sendai, Japan) was in Sendai a few times, sad to see the destruction

Steve Q

From: "ken@kenandjudy.us" <ken@...>
To: Racal6790GM@yahoogroups.com
Sent: Friday, April 26, 2013 11:49 AM
Subject: Re: [Racal6790GM] 6790 acting odd

I went to Comm Tech “A” school in Pensacola and then stationed in Homestead, Florida at the AFB, although I rarely went onto the base. Our site was south of Homestead on Card Sound Road. I was there from early 1968 to early 1971. They offered early-outs since the war was winding down and I took it.

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Ken

From: Steve Quinn
Sent: Friday, April 26, 2013 9:35 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] 6790 acting odd

Hello Ken: By the words and rigs you used I would guess you were in in the mid to late 1970s, the RACALs did not show up on my wathc during the late 1960s-early 1970's and we did not us the SigInt term ..... was station in Misawa Japan on an Air Force base most of my time in ..... you figure ....it was good duty we were a small detachment of around 60-70 people but now I understand the Navy in Misawa is almost 3,000 with a complete air wing ..... ah the good old days ..... right

All
the best, where were you stationed

Steve
Q

The
RACAL is a nice rig and it is solid but my hands always go back to the old friend of R390A..... used it alot to do DF on the Ruskies and a time and

place called Vietnam

All
the best

From: "ken@..." <ken@...>
To: Racal6790GM@yahoogroups.com
Sent: Friday, April 26, 2013
11:11 AM
Subject: Re:
[Racal6790GM] 6790 acting odd

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position in the Navy. The main position had two R-390s and a Racal
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So when the opportunity to buy a Racal receiver came up, I jumped at
it. I've never been so disappointed in a receiver. When it worked,
it was great. But it's has a myriad of problems that render it useless
now. Between battery oozing and bad capacitors, I've spent almost $300 to
get it fixed; and now it's even worse; will hardly do anything; won't run BITE,
display frozen, etc. etc. etc. . It's been in a closet for over a
year. I don't want to throw it away because I have so much money in
it. I no longer have the equipment or skills to fix it myself and
outsourcing is extremely expensive.

Ken

From: squinn12345
Sent: Friday, April 26, 2013 9:04 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790 acting odd

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displayed..... and after I run the BITE test the rig works A-OK
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So my question is, what is
the BITE test doing to "clear-out" whatever is causing the malfunction..... at
time the Fault light comes on but not always .....

THanks, pulling my
hair out here in Cincinnati

Steve
Q

2195. Re: [Racal6790GM] 6790 acting odd

Yahoo group: Racal6790GM
Date: 2013-04-26 16:14:43 UTC
From: toddroberts2001@...
Topic: 2185 Message: 2195

Hi Steve,
Yes 10 years is a long time even for one of the newer NiMH batteries.
I believe Gary Wingerd has replacement batteries. He will probably see
this and let us know what his price is for a new one.

Of course your troubles could be due to any number of other
things, but the battery would be a good place to start.

73 - Todd WD4NGG

In a message dated 4/26/2013 11:38:44 A.M. Eastern Daylight Time,
squinn12345@... writes:

Thanks so much Todd, the rig was upgrade with VLF proms around 2003 or so
and the batter is a Varta I think, my memory is gone for certain
(ha,ha,ha) I agree, I will start with a new battery ..... where do I get
one, I saw on at American milspec site and maybe Toronto surplus

No green traces I can see, but even if the battery was replaced in the
2003 that is 10 years ago ..... so I will go after the battery and
see what happens

Thanks for the help

Steve Q

2196. Re: [Racal6790GM] 6790 acting odd

Yahoo group: Racal6790GM
Date: 2013-04-26 17:08:12 UTC
From: Steve Quinn
Topic: 2185 Message: 2196

Thanks Todd: I have chatted with Gary over email the past couple of days, he is/was VERY HELPFUL .... thanks Gary

ALways like to get as much brain-power on an issue as I can, know what I mean

Steve Q

From: "toddroberts2001@..." <toddroberts2001@...>
To: Racal6790GM@yahoogroups.com
Sent: Friday, April 26, 2013 12:14 PM
Subject: Re: [Racal6790GM] 6790 acting odd

Hi Steve,
Yes 10 years is a long time even for one of the newer NiMH batteries.
I believe Gary Wingerd has replacement batteries. He will probably see
this and let us know what his price is for a new one.

Of course your troubles could be due to any number of other
things, but the battery would be a good place to start.

73 - Todd WD4NGG

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and the batter is a Varta I think, my memory is gone for certain
(ha,ha,ha) I agree, I will start with a new battery ..... where do I get
one, I saw on at American milspec site and maybe Toronto surplus

No green traces I can see, but even if the battery was replaced in the
2003 that is 10 years ago ..... so I will go after the battery and
see what happens

Thanks for the help

Steve Q

Yahoo! Groups Links

    http://docs.yahoo.com/info/terms/

2197. Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-27 00:03:17 UTC
From: reece_k1
Topic: 2174 Message: 2197

Yes, I am looking for something from 2.1Khz to 2.4Khz
I found a Mechanical filter that is not a Collins but is 455Khz CF and 2.31Khz would only cost $75 including delivery but not sure of the associated components needed.

Reece.

--- In Racal6790GM@yahoogroups.com, mstangelo@... wrote:
>
> Reece,
>
> All Collins filters are torsion filters.
>
> Have you checked ebay and eham for 455kHz crystal filters? Whn Hams sell their rigs they usually sell filters separately since the parts fetch a higher price than s complete rig.
>
> What bandwidth are you looking for?
>
> Mike N2MS
> ----- Original Message -----
> From: reece_k1 <reece_k1@...>
> To: Racal6790GM@yahoogroups.com
> Sent: Fri, 26 Apr 2013 12:42:07 -0000 (UTC)
> Subject: [Racal6790GM] Re: Icom crystal filters
>
> Hi thanks for all the info.
> I am not up to all the various Collins mechanical filter types, I can get this one "Collins mechanical filter 526 9427 000, F 455 FA 21" for around $110 incl freight but I am not sure of the accompanying circuit and component sizes needed. Maybe I should just pay the extra and use a crystal filter.
> A lot of the filters I find are 526-9xxx or 526-8xxx, none of these come up on the Rockwell site search.
> How do you know which ones are torsion filters?
>
> Reece.
>
> --- In Racal6790GM@yahoogroups.com, ka9p@ wrote:
> >
> > Reece - I believe this is the current filter site. I doubt they are really
> > inexpensive anymore, I bought one of the low cost ones ten years ago and
> > it was 80 dollars US, and I expect these are what are repackaged on the
> > INRAD site at 140-170 bucks a piece as well.
> >
> > Is your issue that you don't have an SSB filter, or that you need a
> > medium band width SSB filter, or does it have to be mechanical, or?
> >

> > I was excited that you were going t try the FL44 and curious to hear how
> > it worked :)
> >
> > Scott
> >
> > http://www.rockwellcollins.com/Capabilities_and_Markets/More/Precision_Manuf
> > acturing/Rockwell_Collins_Filters.aspx
> >
> >
> > In a message dated 4/24/2013 9:10:22 P.M. Central Daylight Time,
> > reece_k1@ writes:
> >
> > Hi, the only Rockwell Collins site I could find had nothing to do with
> > filters, I searched for the part number "526-8635-010" but found nothing. The
> > pdf file has phone number and address but not worth the hassles here in
> > Australia.
> >
> > Reece.
> >
> >
> > --- In Racal6790GM@yahoogroups.com, "KR4HV" <kr4hv@> wrote:
> > >
> > > Reece, I have attached a file for you to review. Look on page 3. Collins
> > > makes an "economy" line if mechanical filters that sell for ~100USD.
> > >
> > >
> > >
> > > You can see their current listings for these in the Rockwell Collins
> > site.
> > >
> > >
> > >
> > > 73,
> > >
> > > Walt
>

2198. Re: IF filters

Yahoo group: Racal6790GM
Date: 2013-04-27 00:06:20 UTC
From: reece_k1
Topic: 2174 Message: 2198

Thanks Raymond, I will have a read but may be over the top!!

Cheers.

--- In Racal6790GM@yahoogroups.com, Raymond Boute <Raymond.Boute@...> wrote:
>
> The following article (which I lost and found
> again) is worth sharing with all those interested in IF filters:
> http://www.puehler-electronic.de/Rockwell-COLLINS-mec.IF-Fi-4KHz.pdf
> It does not contain just specs, but also a full
> tutorial on filters (discussing impedances,
> working and saturation levels, losses etc.). AFAIK, Puehler still exists.
> 73
> Raymond ON4DBV
>
> ==========
>
> At 14:42 2013-04-26, reece_k1 wrote:
> >
> >
> >Hi thanks for all the info.
> >I am not up to all the various Collins
> >mechanical filter types, I can get this one
> >"Collins mechanical filter 526 9427 000, F 455
> >FA 21" for around $110 incl freight but I am not
> >sure of the accompanying circuit and component
> >sizes needed. Maybe I should just pay the extra and use a crystal filter.
> >A lot of the filters I find are 526-9xxx or
> >526-8xxx, none of these come up on the Rockwell site search.
> >How do you know which ones are torsion filters?
> >
> >Reece.
> >
> >--- In
> ><mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com,
> >ka9p@ wrote:
> > >
> > > Reece - I believe this is the current filter site. I doubt they are really
> > > inexpensive anymore, I bought one of the low cost ones ten years ago and
> > > it was 80 dollars US, and I expect these are what are repackaged on the
> > > INRAD site at 140-170 bucks a piece as well.
> > >
> > > Is your issue that you don't have an SSB filter, or that you need a
> > > medium band width SSB filter, or does it have to be mechanical, or?
> > >

> > > I was excited that you were going t try the FL44 and curious to hear how
> > > it worked :)
> > >
> > > Scott
> > >
> > >
> > > <http://www.rockwellcollins.com/Capabilities_and_Markets/More/Precision_Manuf>http://w
ww.rockwellcollins.com/Capabilities_and_Markets/More/Precision_Manuf
> > > acturing/Rockwell_Collins_Filters.aspx
> > >
> > >
> > > In a message dated 4/24/2013 9:10:22 P.M. Central Daylight Time,
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> > >
> > > Hi, the only Rockwell Collins site I could find had nothing to do with
> > > filters, I searched for the part number
> > "526-8635-010" but found nothing. The
> > > pdf file has phone number and address but not worth the hassles here in
> > > Australia.
> > >
> > > Reece.
> > >
> > >
> > > --- In
> > <mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com,
> > "KR4HV" <kr4hv@> wrote:
> > > >
> > > > Reece, I have attached a file for you to review. Look on page 3. Collins
> > > > makes an "economy" line if mechanical filters that sell for ~100USD.
> > > >
> > > >
> > > >
> > > > You can see their current listings for these in the Rockwell Collins
> > > site.
> > > >
> > > >
> > > >
> > > > 73,
> > > >
> > > > Walt
> > > >
> > > >
> > > >
> > > > From:
> > <mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com
> > [mailto:Racal6790GM@yahoogroups.com] On
> > > > Behalf Of reece_k1
> > > > Sent: Wednesday, April 24, 2013 7:34 AM
> > > > To: <mailto:Racal6790GM%40yahoogroups.com>Racal6790GM@yahoogroups.com
> > > > Subject: [Racal6790GM] Icom crystal filters

> > > >
> > > >
> > > >
> > > >
> > > >
> > > > I would like to remove the 18Khz filter (Don't use FM) and replace with
> > > one
> > > > around 2.4khz, is it ok to make an adapter pcb for Icom type to fit the
> > > > RA6790 Filter slot using a FL-44A (455khz cf)?
> > > >
> > > > Reece.
> > > >
> > >
> > >
> > >
> > >
> > > ---------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> >
> >
>

2199. Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-27 00:22:59 UTC
From: reece_k1
Topic: 2174 Message: 2199

Thanks but I can't view the attachments or save them???

Reece.

--- In Racal6790GM@yahoogroups.com, "KR4HV" <kr4hv@...> wrote:
>
> Sorry, here are the attachments.
>
>
>
> KR4HV
>
>
>
> From: KR4HV [mailto:kr4hv@...]
> Sent: Friday, April 26, 2013 11:31 AM
> To: 'Racal6790GM@yahoogroups.com'
> Subject: RE: [Racal6790GM] Re: Icom crystal filters
>
>
>
>
>
>
>
>
>
>
>
> http://www.rockwellcollins.com/Capabilities_and_Markets/More/Precision_Manuf
> acturing/Rockwell_Collins_Filters.aspx
>
>
>
> Here is the current (as of today) web site for Collins filters. Look at the
> "Low Cost" listing. The available band widths are listed and you can review
> the specs and pricing by drilling down.
>
>
>
> Look at page 3 in Dallas Lankford's attached article for exact installation
> instructions.
>
>
>
> The instructions and the filters worked very well for me.
>

>
>
> It won't get any easier than this.
>
>
>
> BTW, if you install other than these types of filters per the instructions
> (or the original Racal crystal filters or the original Collins filter models
> that Racal also used-if you can find any) you will have to either calculate,
> test and or measure by trial and error to obtain the correct matches.
> Otherwise your performance may well suffer. Dallas has already done that for
> the "lower cost" line of Collins Mechanical filters.
>
>
>
>
>
> Gary Wingerd has the info on the Collins filters that Racal used in some
> versions of the 6790, but they are near impossible to find and probably
> expensive if found.
>
>
>
> KR4HV
>
>
>
>
>
> From: Racal6790GM@...m [mailto:Racal6790GM@yahoogroups.com] On
> Behalf Of reece_k1
> Sent: Friday, April 26, 2013 8:42 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Re: Icom crystal filters
>
>
>
>
>
> Hi thanks for all the info.
> I am not up to all the various Collins mechanical filter types, I can get
> this one "Collins mechanical filter 526 9427 000, F 455 FA 21" for around
> $110 incl freight but I am not sure of the accompanying circuit and
> component sizes needed. Maybe I should just pay the extra and use a crystal
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> How do you know which ones are torsion filters?
>
> Reece.

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> --- In Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com> ,
> ka9p@ wrote:
> >
> > Reece - I believe this is the current filter site. I doubt they are really
>
> > inexpensive anymore, I bought one of the low cost ones ten years ago and
> > it was 80 dollars US, and I expect these are what are repackaged on the
> > INRAD site at 140-170 bucks a piece as well.
> >
> > Is your issue that you don't have an SSB filter, or that you need a
> > medium band width SSB filter, or does it have to be mechanical, or?
> >
> > I was excited that you were going t try the FL44 and curious to hear how
> > it worked :)
> >
> > Scott
> >
> >
> http://www.rockwellcollins.com/Capabilities_and_Markets/More/Precision_Manuf
> > acturing/Rockwell_Collins_Filters.aspx
> >
> >
> > In a message dated 4/24/2013 9:10:22 P.M. Central Daylight Time,
> > reece_k1@ writes:
> >
> > Hi, the only Rockwell Collins site I could find had nothing to do with
> > filters, I searched for the part number "526-8635-010" but found nothing.
> The
> > pdf file has phone number and address but not worth the hassles here in
> > Australia.
> >
> > Reece.
> >
> >
> > --- In Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
> , "KR4HV" <kr4hv@> wrote:
> > >
> > > Reece, I have attached a file for you to review. Look on page 3. Collins
> > > makes an "economy" line if mechanical filters that sell for ~100USD.
> > >
> > >
> > >
> > > You can see their current listings for these in the Rockwell Collins
> > site.
> > >
> > >
> > >
> > > 73,
> > >

> > > Walt
> > >
> > >
> > >
> > > From: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
> [mailto:Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>]
> On
> > > Behalf Of reece_k1
> > > Sent: Wednesday, April 24, 2013 7:34 AM
> > > To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM%40yahoogroups.com>
> > > Subject: [Racal6790GM] Icom crystal filters
> > >
> > >
> > >
> > >
> > >
> > > I would like to remove the 18Khz filter (Don't use FM) and replace with
> > one
> > > around 2.4khz, is it ok to make an adapter pcb for Icom type to fit the
> > > RA6790 Filter slot using a FL-44A (455khz cf)?
> > >
> > > Reece.
> > >
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
>

2200. Re: [Racal6790GM] Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-27 00:53:45 UTC
From: Dan Rae
Topic: 2174 Message: 2200

Two things to bear in mind when you use non Racal filters:

1. whatever filter you use has to be impedance matched to the racal circuitry. This is relatively easy using the Collins "Cheap" mechanical filters and many have used those, in particular the 5.7 kHz wide one which is great for AM.

2. If you are planning to use a single narrow filter for SSB, you may run into problems since the GM does some clever shifting of 1st LO and BFO frequencies to use the same 3.24 kHz wide filter for both sidebands. The shifts will not be correct if you try to use say, a single 2.1 kHz wide filter for both sidebands. I did find a pair of narrow (1.9 kHz) USB / LSB Collins filters once and fitted them to a GM which works great, but you do need the pair, fitted in the first two slots.

dr

2201. Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-27 01:38:35 UTC
From: reece_k1
Topic: 2174 Message: 2201

I didn't realize that the filters would be different for USB compared to LSB, that makes it hard, the filter I mentioned is advertised as an SSB filter, I was actually going to use in CW mode (not using slot 1)
Maybe I should just stick to an ICOM crystal SSB filter.

Reece.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> Two things to bear in mind when you use non Racal filters:
>
> 1. whatever filter you use has to be impedance matched to the racal
> circuitry. This is relatively easy using the Collins "Cheap" mechanical
> filters and many have used those, in particular the 5.7 kHz wide one
> which is great for AM.
>
> 2. If you are planning to use a single narrow filter for SSB, you may
> run into problems since the GM does some clever shifting of 1st LO and
> BFO frequencies to use the same 3.24 kHz wide filter for both
> sidebands. The shifts will not be correct if you try to use say, a
> single 2.1 kHz wide filter for both sidebands. I did find a pair of
> narrow (1.9 kHz) USB / LSB Collins filters once and fitted them to a GM
> which works great, but you do need the pair, fitted in the first two slots.
>
> dr
>

2202. Re: 6790 acting odd

Yahoo group: Racal6790GM
Date: 2013-04-27 02:10:34 UTC
From: reece_k1
Topic: 2185 Message: 2202

Hi Steve and Ken, as others have mentioned the battery is the first thing I would replace, if doing this and the problem persists I would do the following:
Remove the A4, A6A2 and A9 boards, check these visually for dry joints, corrosion and over heated components, if all ok then check and spray all contacts/plugs with a good electronic contact cleaner.
Replace these boards, do a BITE test and check radio, if problem is still there then check the PSU for bad contacts leaking caps etc. these are the most likely area's to look.
Failing this check the remainder pcbs, contacts and plugs.
I hope you get it sorted out soon.

Reece.

--- In Racal6790GM@yahoogroups.com, <ken@...> wrote:
>
> Another SigInt guy. I was a ComInt guy, had 3 R-390s at my position in the Navy. The main position had two R-390s and a Racal that looked something like an R-388.
>
> So when the opportunity to buy a Racal receiver came up, I jumped at it. Iâ□□ve never been so disappointed in a receiver. When it worked, it was great. But itâ□□s has a myriad of problems that render it useless now. Between battery oozing and bad capacitors, Iâ□□ve spent almost $300 to get it fixed; and now itâ□□s even worse; will hardly do anything; wonâ□□t run BITE, display frozen, etc. etc. etc. . Itâ□□s been in a closet for over a year. I donâ□□t want to throw it away because I have so much money in it. I no longer have the equipment or skills to fix it myself and outsourcing is extremely expensive.
>
> Ken
>
> From: squinn12345
> Sent: Friday, April 26, 2013 9:04 AM
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] 6790 acting odd
>
>
> I have several milspec rigs, including this RACAL and the R390A an old friend from my day in Navy Intelligence, Signal Intercept.
>
> Ok with that out of the way, my 6790 will turn on just fine and run great, but lately I get all kinds of junk in the LED display and at times the tuning knob is frozen.
>
> It does not happen all the time..... power supply looks ok and the battery appears ok, no leaks I can see
>
> Now the odd ball thing, if I run the BITE test everything is ok with no error codes displayed..... and after I run the BITE test the rig works A-OK ..... hummmmmmmmmmmmmmmmmm
>
> So my question is, what is the BITE test doing to "clear-out" whatever is causing the malfunction..... at time the Fault light comes on but not always .....

>
> THanks, pulling my hair out here in Cincinnati
>
> Steve Q
>

2203. Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-27 07:19:43 UTC
From: reece_k1
Topic: 2174 Message: 2203

Well I stumbled across an Inrad crystal filter 455Khz CF and 2.1Khz bandwidth:
http://www.dtsohio.com/parts/GS/inradkhzs-1365811285-16810.jpg
I got it for $91 including delivery so I am quite pleased!!
I want it for CW use, the radio is most used for Utility station decoding, there was too much of a gap between 1.2 and 3.2Khz, this should fill it nicely. Hopefully this should go straight in with only a small pcb and 4 pins!! If there is something I have missed please let me know.
Thanks all.

Reece

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
>
> I didn't realize that the filters would be different for USB compared to LSB, that makes it hard, the filter I mentioned is advertised as an SSB filter, I was actually going to use in CW mode (not using slot 1)
> Maybe I should just stick to an ICOM crystal SSB filter.
>
> Reece.
>
> --- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@> wrote:
> >
> > Two things to bear in mind when you use non Racal filters:
> >
> > 1. whatever filter you use has to be impedance matched to the racal
> > circuitry. This is relatively easy using the Collins "Cheap" mechanical
> > filters and many have used those, in particular the 5.7 kHz wide one
> > which is great for AM.
> >
> > 2. If you are planning to use a single narrow filter for SSB, you may
> > run into problems since the GM does some clever shifting of 1st LO and
> > BFO frequencies to use the same 3.24 kHz wide filter for both
> > sidebands. The shifts will not be correct if you try to use say, a
> > single 2.1 kHz wide filter for both sidebands. I did find a pair of
> > narrow (1.9 kHz) USB / LSB Collins filters once and fitted them to a GM
> > which works great, but you do need the pair, fitted in the first two slots.
> >
> > dr
> >
>

2204. Re: [Racal6790GM] Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-27 16:56:08 UTC
From: Dan Rae
Topic: 2174 Message: 2204

On 4/27/2013 12:19 AM, reece_k1 wrote:
>
> Well I stumbled across an Inrad crystal filter 455Khz CF and 2.1Khz bandwidth:
http://www.dtsohio.com/parts/GS/inradkhzs-1365811285-16810.jpg
> I got it for $91 including delivery so I am quite pleased!!
> I want it for CW use
Reece, it should work fine, as it is a symmetrical filter. You could use it for ssb by offsetting the BFO approximately 1.2 kHz one way or the other, but your dial frequency will then be out by whatever offset you use. This is what the GM does for using the 3.24 kHz filter for both sidebands, it offsets both the VFO and the BFO in opposite directions by 1.8 kHz so the dial reading is correct. When you have a pair of ssb filters, one USB and one LSB, the BFO is always at 0 kHz, so no offsets.

But you will still need to take note of my number 1, it will need to be matched correctly to get the best insertion loss and lowest passband ripple.

73 - Dan

2205. Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-27 23:31:46 UTC
From: reece_k1
Topic: 2174 Message: 2205

Hi Dan, I thought that was for mechanical filters not crystal, do you have any idea of the R & C values are? (R1 580 R2 1.5k C 30pF)
Thanks.

Reece.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 4/27/2013 12:19 AM, reece_k1 wrote:
> >
> > Well I stumbled across an Inrad crystal filter 455Khz CF and 2.1Khz bandwidth:
http://www.dtsohio.com/parts/GS/inradkhzs-1365811285-16810.jpg
> > I got it for $91 including delivery so I am quite pleased!!
> > I want it for CW use
> Reece, it should work fine, as it is a symmetrical filter. You could
> use it for ssb by offsetting the BFO approximately 1.2 kHz one way or
> the other, but your dial frequency will then be out by whatever offset
> you use. This is what the GM does for using the 3.24 kHz filter for
> both sidebands, it offsets both the VFO and the BFO in opposite
> directions by 1.8 kHz so the dial reading is correct. When you have a
> pair of ssb filters, one USB and one LSB, the BFO is always at 0 kHz, so
> no offsets.
>
> But you will still need to take note of my number 1, it will need to be
> matched correctly to get the best insertion loss and lowest passband
> ripple.
>
> 73 - Dan
>

2206. Re: [Racal6790GM] Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-28 00:24:30 UTC
From: Dan Rae
Topic: 2174 Message: 2206

On 4/27/2013 4:31 PM, reece_k1 wrote:
> Hi Dan, I thought that was for mechanical filters not crystal, do you have any idea of the R & C values are? (R1 580 R2 1.5k C 30pF)
> Thanks.
>
> Reece.
>
Reece, ANY filter no matter what kind or who it is made by will have a design impedance, i.e. one that is designed to be driven from and loaded with at the output for it to produce it's designed characteristics correctly. This is basic. In the GM the Racal specified crystal filters (and the 16 kHz LC one) are internally matched to work into the circuit impedance, i.e. the 2nd mixer output and the IF amp input, with no extra matching. The Collins filters used sometimes by Racal will need specific for each filter parallel Cs fitted for them to be matched. There are places on the board where these go.

For any other filters, you will need to work out what needs to be done to match the GM impedances to those of your filter. There are programs available to design transformation networks, I have used a free one called Dishal 2026 which I imagine you can find from your usual search engine...

73 - Dan

2207. Non Racal crystal filter installation

Yahoo group: Racal6790GM
Date: 2013-04-28 02:18:10 UTC
From: reece_k1
Topic: 2207 Message: 2207

I have purchased (in transit) a Swan crystal filter with a CF of 455Khz and bandwidth of 2.1Khz, made for a KENWOOD TS-830S, R-820.
I have been told that this has to be matched to suit the Racal 6790, I am not up to the various calculations of components or the circuit required.
Can someone please assist?

2208. Re: [Racal6790GM] Non Racal crystal filter installation

Yahoo group: Racal6790GM
Date: 2013-04-28 08:00:23 UTC
From: Raymond Boute
Topic: 2207 Message: 2208

New Dishal version for filters:
http://fa-nwt.akadns.de/blogs/blog4.php
SW and English manual (help file) in
<http://fa-nwt.akadns.de/blogs/media/blogs/dj6ev/quarzfilter/deDishal203.zip>deDishal203.zip
.

2209. RE: [Racal6790GM] Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-28 08:59:37 UTC
From: George Georgevits
Topic: 2174 Message: 2209

Hi Reece,

I have to put my 2c worth in here.

What Dan means is any PASSIVE LC filter (or crystal filter, which, after all, has mechanical equivalents of L's and C's). Active filters have different matching requirements, depending on design, and precise matching is often not required.

With a mismatched passive filter, the entire response curve goes pear shaped if the input and output impedances are not matched, and it doesn't take much. Most importantly, the skirt selectivity and stopband attenuation near the passband will suffer.

A network analyzer can be useful for determining the required matching impedances by trial and error, using trimmer matching components in the appropriate places. It requires no calculations and you can see the effect on response as you tweak the trimmers.

73s,
George Georgevits
VK2KGG

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]On Behalf Of Dan Rae
Sent: Sunday, 28 April 2013 10:25 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Re: Icom crystal filters

On 4/27/2013 4:31 PM, reece_k1 wrote:
> Hi Dan, I thought that was for mechanical filters not crystal, do you have any idea of the R & C values are? (R1 580 R2 1.5k C 30pF)
> Thanks.
>
> Reece.
>
Reece, ANY filter no matter what kind or who it is made by will have a design impedance, i.e. one that is designed to be driven from and loaded with at the output for it to produce it's designed characteristics correctly. This is basic. In the GM the Racal specified crystal filters (and the 16 kHz LC one) are internally matched to work into the circuit impedance, i.e. the 2nd mixer output and the IF amp input, with no extra matching. The Collins filters used sometimes by Racal will need specific for each filter parallel Cs fitted for them to be matched. There are places on the board where these go.

For any other filters, you will need to work out what needs to be done to match the GM impedances to those of your filter. There are programs available to design transformation networks, I have used a free one called Dishal 2026 which I imagine you can find from your usual search engine...

73 - Dan

2210. Re: Non Racal crystal filter installation

Yahoo group: Racal6790GM
Date: 2013-04-28 09:48:06 UTC
From: reece_k1
Topic: 2207 Message: 2210

I know nothing about RF and filters, I could build up the circuit etc but need some ones help with the design and values.
Thanks
Reece.

--- In Racal6790GM@yahoogroups.com, Raymond Boute <Raymond.Boute@...> wrote:
>
> New Dishal version for filters:
> http://fa-nwt.akadns.de/blogs/blog4.php
> SW and English manual (help file) in
> <http://fa-nwt.akadns.de/blogs/media/blogs/dj6ev/quarzfilter/deDishal203.zip>deDishal203.zip
> .
>

2211. Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-28 09:50:36 UTC
From: reece_k1
Topic: 2174 Message: 2211

Way over my head, I might just box the filter and forget it!!but thanks for responding.

Reece.

--- In Racal6790GM@yahoogroups.com, "George Georgevits" <georgg@...> wrote:
>
> Hi Reece,
>
> I have to put my 2c worth in here.
>
> What Dan means is any PASSIVE LC filter (or crystal filter, which, after
> all, has mechanical equivalents of L's and C's). Active filters have
> different matching requirements, depending on design, and precise matching
> is often not required.
>
> With a mismatched passive filter, the entire response curve goes pear shaped
> if the input and output impedances are not matched, and it doesn't take
> much. Most importantly, the skirt selectivity and stopband attenuation near
> the passband will suffer.
>
> A network analyzer can be useful for determining the required matching
> impedances by trial and error, using trimmer matching components in the
> appropriate places. It requires no calculations and you can see the effect
> on response as you tweak the trimmers.
>
> 73s,
> George Georgevits
> VK2KGG
>
> -----Original Message-----
> From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]On
> Behalf Of Dan Rae
> Sent: Sunday, 28 April 2013 10:25 AM
> To: Racal6790GM@yahoogroups.com
> Subject: Re: [Racal6790GM] Re: Icom crystal filters
>
>
>
> On 4/27/2013 4:31 PM, reece_k1 wrote:
> > Hi Dan, I thought that was for mechanical filters not crystal, do you
> have any idea of the R & C values are? (R1 580 R2 1.5k C 30pF)
> > Thanks.
> >
> > Reece.
> >

> Reece, ANY filter no matter what kind or who it is made by will have a
> design impedance, i.e. one that is designed to be driven from and loaded
> with at the output for it to produce it's designed characteristics
> correctly. This is basic. In the GM the Racal specified crystal
> filters (and the 16 kHz LC one) are internally matched to work into the
> circuit impedance, i.e. the 2nd mixer output and the IF amp input, with
> no extra matching. The Collins filters used sometimes by Racal will
> need specific for each filter parallel Cs fitted for them to be
> matched. There are places on the board where these go.
>
> For any other filters, you will need to work out what needs to be done
> to match the GM impedances to those of your filter. There are programs
> available to design transformation networks, I have used a free one
> called Dishal 2026 which I imagine you can find from your usual search
> engine...
>
> 73 - Dan
>

2212. Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-28 12:16:40 UTC
From: reece_k1
Topic: 2174 Message: 2212

Hi again, I was under the impression that only mechanical filters needed matching circuitry, not crystal filters, my bad!!!
Before I totally give up can someone give me a circuit with rough component values that I can use as a base, I don't have an expensive analyzer but if I can get the Racal to accept the filter there are plenty of decoders that have a spectrum analyzer to display the signal strength and the bandwidth, is it possible to adjust the values using this type of display?
As I mention I am rather green in this area!!
Thanks for all the help.

Reece

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
> Way over my head, I might just box the filter and forget it!!but thanks for responding.
>
> Reece.
>
> --- In Racal6790GM@yahoogroups.com, "George Georgevits" <georgg@> wrote:
> >
> > Hi Reece,
> >
> > I have to put my 2c worth in here.
> >
> > What Dan means is any PASSIVE LC filter (or crystal filter, which, after
> > all, has mechanical equivalents of L's and C's). Active filters have
> > different matching requirements, depending on design, and precise matching
> > is often not required.
> >
> > With a mismatched passive filter, the entire response curve goes pear shaped
> > if the input and output impedances are not matched, and it doesn't take
> > much. Most importantly, the skirt selectivity and stopband attenuation near
> > the passband will suffer.
> >
> > A network analyzer can be useful for determining the required matching
> > impedances by trial and error, using trimmer matching components in the
> > appropriate places. It requires no calculations and you can see the effect
> > on response as you tweak the trimmers.
> >
> > 73s,
> > George Georgevits
> > VK2KGG
> >
> > -----Original Message-----
> > From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]On
> > Behalf Of Dan Rae

> > Sent: Sunday, 28 April 2013 10:25 AM
> > To: Racal6790GM@yahoogroups.com
> > Subject: Re: [Racal6790GM] Re: Icom crystal filters
> >
> >
> >
> > On 4/27/2013 4:31 PM, reece_k1 wrote:
> > > Hi Dan, I thought that was for mechanical filters not crystal, do you
> > have any idea of the R & C values are? (R1 580 R2 1.5k C 30pF)
> > > Thanks.
> > >
> > > Reece.
> > >
> > Reece, ANY filter no matter what kind or who it is made by will have a
> > design impedance, i.e. one that is designed to be driven from and loaded
> > with at the output for it to produce it's designed characteristics
> > correctly. This is basic. In the GM the Racal specified crystal
> > filters (and the 16 kHz LC one) are internally matched to work into the
> > circuit impedance, i.e. the 2nd mixer output and the IF amp input, with
> > no extra matching. The Collins filters used sometimes by Racal will
> > need specific for each filter parallel Cs fitted for them to be
> > matched. There are places on the board where these go.
> >
> > For any other filters, you will need to work out what needs to be done
> > to match the GM impedances to those of your filter. There are programs
> > available to design transformation networks, I have used a free one
> > called Dishal 2026 which I imagine you can find from your usual search
> > engine...
> >
> > 73 - Dan
> >
>

2213. Re: [Racal6790GM] Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-28 13:34:52 UTC
From: toddroberts2001@...
Topic: 2174 Message: 2213

Hi Reece,
I think the crystal filters between the Icom and the Racal should be fairly close
to compatible as is. I think the impedance standard for most crystal IF filters is
somewhere around 1500-2000 ohms. I would go ahead and wire it in. It may work
just fine as is.

It is the mechanical filters that require a certain value of resonating cap across
the input and output pins and they are more critical to impedance matching
but you shouldn't have to worry about that by using
an Icom crystal filter.

You will have to figure out the best way to connect the Icom filter to the Racal
IF filter pin connections. Try to keep the leads as short as possible. No long
haywire or clip leads should be used in this area.

73 - Todd WD4NGG

In a message dated 4/28/2013 8:16:52 A.M. Eastern Daylight Time,
reece_k1@... writes:

Hi again, I was under the impression that only mechanical filters needed
matching circuitry, not crystal filters, my bad!!!
Before I totally give up can someone give me a circuit with rough
component values that I can use as a base, I don't have an expensive analyzer but
if I can get the Racal to accept the filter there are plenty of decoders
that have a spectrum analyzer to display the signal strength and the
bandwidth, is it possible to adjust the values using this type of display?
As I mention I am rather green in this area!!
Thanks for all the help.

Reece

2214. Maxdrm2 notes

Yahoo group: Racal6790GM
Date: 2013-04-28 14:10:32 UTC
From: Raymond Boute
Topic: 2214 Message: 2214

Hi all,
The "RA6790/GM Alignment and Tuning Manual" is very useful.
However:
- It consists only of Chapter 3. Where can one find the other chapters?
- It refers to figures (e.g. Figure 3-2B mentioned on p. 7) and
tables that are not in the file. Where can these be found?
Is there another e-mail address than Maxhdrm2@... (which
seems inactive)?
Regards
Raymond

2215. Re: [Racal6790GM] Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-28 16:17:11 UTC
From: Dan Rae
Topic: 2174 Message: 2215

Reece, as Todd suggests a lot of the IF crystal filters made have impedances in that range, say between 800 Ohms and a few k Ohms [1]. You could use one of your computer sound card spectrum analyzer programs and a noise generator input to get a very good idea of your filter's response, giving you in effect a similar result to using a VNA for very few $$. Also you can just tune through a steady carrier and check the signal level, but the GM S meter is a bit crude for that method. It's been a while since I looked at it, but I think the GM and 1792 IF filters are looking for something round 4.7k Ohms, but do check.

We don't know what the design impedance of your particular filter is, so no one will be able to do the math for you.

Don't give up, experiment! And you'll maybe have some fun in the process.

Dan

[1] The roofing filters for the first IF at 40.455 MHz however are designed for 50 Ohms, so substituting other filters there becomes very easy, since that seems to be a de facto industry standard. However finding others isn't that easy!

2216. Re: [Racal6790GM] Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-28 17:03:14 UTC
From: mstangelo@...
Topic: 2174 Message: 2216

Reece,

If you knoe the impedance of the Racal filters you could design a L match to match the impedance of the filter to the radio.

I would start by connecting the filter to the RA6790 and run the bite test. The radio will then characterize the unmatched filter for you.

Mike
----- Original Message -----
From: Dan Rae <danrae@...>
To: Racal6790GM@yahoogroups.com
Sent: Sun, 28 Apr 2013 16:17:11 -0000 (UTC)
Subject: Re: [Racal6790GM] Re: Icom crystal filters

Reece, as Todd suggests a lot of the IF crystal filters made have impedances in that range, say between 800 Ohms and a few k Ohms [1]. You could use one of your computer sound card spectrum analyzer programs and a noise generator input to get a very good idea of your filter's response, giving you in effect a similar result to using a VNA for very few $$. Also you can just tune through a steady carrier and check the signal level, but the GM S meter is a bit crude for that method. It's been a while since I looked at it, but I think the GM and 1792 IF filters are looking for something round 4.7k Ohms, but do check.

We don't know what the design impedance of your particular filter is, so no one will be able to do the math for you.

Don't give up, experiment! And you'll maybe have some fun in the process.

Dan

[1] The roofing filters for the first IF at 40.455 MHz however are designed for 50 Ohms, so substituting other filters there becomes very easy, since that seems to be a de facto industry standard. However finding others isn't that easy!

Yahoo! Groups Links

2217. Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-29 00:05:41 UTC
From: reece_k1
Topic: 2174 Message: 2217

Hi all, you've given me new hope, I have just ordered a tiny breadboard, only a few dollars. I will try as is first but if it is way out I will be able to experiment, probably post for some more advise.

Reece.

--- In Racal6790GM@yahoogroups.com, toddroberts2001@... wrote:
>
> Hi Reece,
> I think the crystal filters between the Icom and the Racal should be fairly
> close
> to compatible as is. I think the impedance standard for most crystal IF
> filters is
> somewhere around 1500-2000 ohms. I would go ahead and wire it in. It may
> work
> just fine as is.
>
> It is the mechanical filters that require a certain value of resonating cap
> across
> the input and output pins and they are more critical to impedance matching
> but you shouldn't have to worry about that by using
> an Icom crystal filter.
>
> You will have to figure out the best way to connect the Icom filter to the
> Racal
> IF filter pin connections. Try to keep the leads as short as possible. No
> long
> haywire or clip leads should be used in this area.
>
> 73 - Todd WD4NGG
>
>
>
> In a message dated 4/28/2013 8:16:52 A.M. Eastern Daylight Time,
> reece_k1@... writes:
>
> Hi again, I was under the impression that only mechanical filters needed
> matching circuitry, not crystal filters, my bad!!!
> Before I totally give up can someone give me a circuit with rough
> component values that I can use as a base, I don't have an expensive analyzer but
> if I can get the Racal to accept the filter there are plenty of decoders
> that have a spectrum analyzer to display the signal strength and the
> bandwidth, is it possible to adjust the values using this type of display?
> As I mention I am rather green in this area!!
> Thanks for all the help.

>
> Reece
>

2218. Re: Maxdrm2 notes

Yahoo group: Racal6790GM
Date: 2013-04-29 00:19:51 UTC
From: reece_k1
Topic: 2214 Message: 2218

Hi Raymond, if you want a copy of the manual here is couple of links:

http://www.radioaficion.com/HamNews/reviews/receptores/8795-racal-6790gm-hf-receiver.html

http://www.radiopics.com/Racal/Racal_RA%206790-GM.htm

Reece.

--- In Racal6790GM@yahoogroups.com, Raymond Boute <Raymond.Boute@...> wrote:
>
> Hi all,
> The "RA6790/GM Alignment and Tuning Manual" is very useful.
> However:
> - It consists only of Chapter 3. Where can one find the other chapters?
> - It refers to figures (e.g. Figure 3-2B mentioned on p. 7) and
> tables that are not in the file. Where can these be found?
> Is there another e-mail address than Maxhdrm2@... (which
> seems inactive)?
> Regards
> Raymond
>

2219. Re: Maxdrm2 notes

Yahoo group: Racal6790GM
Date: 2013-04-29 02:11:46 UTC
From: reece_k1
Topic: 2214 Message: 2219

Hi again Raymond, I just realized that you were referring to the alignment manual, yes it's odd that there is only a chapter 3.

Reece.

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
>
> Hi Raymond, if you want a copy of the manual here is couple of links:
>
>
http://www.radioaficion.com/HamNews/reviews/receptores/8795-racal-6790gm-hf-receiver.html
>
> http://www.radiopics.com/Racal/Racal_RA%206790-GM.htm
>
>
> Reece.
>
> --- In Racal6790GM@yahoogroups.com, Raymond Boute <Raymond.Boute@> wrote:
> >
> > Hi all,
> > The "RA6790/GM Alignment and Tuning Manual" is very useful.
> > However:
> > - It consists only of Chapter 3. Where can one find the other chapters?
> > - It refers to figures (e.g. Figure 3-2B mentioned on p. 7) and
> > tables that are not in the file. Where can these be found?
> > Is there another e-mail address than Maxhdrm2@ (which
> > seems inactive)?
> > Regards
> > Raymond
> >
>

2220. Re: Icom crystal filters

Yahoo group: Racal6790GM
Date: 2013-04-29 05:24:21 UTC
From: reece_k1
Topic: 2174 Message: 2220

I just found this at INRAD for their 455Khz - 2.1Khz crystal filter for a Kenwood TS-830:
http://www.inrad.net/product.php?productid=23&cat=55&page=1
Should be close.

Reece.

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
> Hi all, you've given me new hope, I have just ordered a tiny breadboard, only a few dollars. I will try as is first but if it is way out I will be able to experiment, probably post for some more advise.
>
> Reece.
>
> --- In Racal6790GM@yahoogroups.com, toddroberts2001@ wrote:
> >
> > Hi Reece,
> > I think the crystal filters between the Icom and the Racal should be fairly
> > close
> > to compatible as is. I think the impedance standard for most crystal IF
> > filters is
> > somewhere around 1500-2000 ohms. I would go ahead and wire it in. It may
> > work
> > just fine as is.
> >
> > It is the mechanical filters that require a certain value of resonating cap
> > across
> > the input and output pins and they are more critical to impedance matching
> > but you shouldn't have to worry about that by using
> > an Icom crystal filter.
> >
> > You will have to figure out the best way to connect the Icom filter to the
> > Racal
> > IF filter pin connections. Try to keep the leads as short as possible. No
> > long
> > haywire or clip leads should be used in this area.
> >
> > 73 - Todd WD4NGG
> >
> >
> >
> > In a message dated 4/28/2013 8:16:52 A.M. Eastern Daylight Time,
> > reece_k1@ writes:
> >
> > Hi again, I was under the impression that only mechanical filters needed

> > matching circuitry, not crystal filters, my bad!!!
> > Before I totally give up can someone give me a circuit with rough
> > component values that I can use as a base, I don't have an expensive analyzer but
> > if I can get the Racal to accept the filter there are plenty of decoders
> > that have a spectrum analyzer to display the signal strength and the
> > bandwidth, is it possible to adjust the values using this type of display?
> > As I mention I am rather green in this area!!
> > Thanks for all the help.
> >
> > Reece
> >
>

2221. 6790 Battery DUMB QUESTION

Yahoo group: Racal6790GM
Date: 2013-04-29 11:41:38 UTC
From: Steve Quinn
Topic: 2221 Message: 2221

Ok call me dumb but what exactly is the battery in the 6790 used for. In a computer the battery will hold the clock and time when the power is turned off, but with out memory scan capability and any other memory thing, I am wondering what does the battery do for the rig.

Second dumb question: (afterall it is Monday ha,ha) is the battery recharged by the unit, the rig has a varta battery

Thanks for listening to my dumb questions

SteveQ

2222. Re: 6790 Battery DUMB QUESTION

Yahoo group: Racal6790GM
Date: 2013-04-29 12:42:05 UTC
From: reece_k1
Topic: 2221 Message: 2222

Hi Steve, the battery is internally recharged, if it is over 10 years old I would replace it.
It stores frequency, mode (usb), filter info, etc, if the battery has died I would replace it and do a BITE test.

Reece.

--- In Racal6790GM@yahoogroups.com, Steve Quinn <squinn12345@...> wrote:
>
> Ok call me dumb but what exactly is the battery in the 6790 used for. In a computer the battery will hold the clock and time when the power is turned off, but with out memory scan capability and any other memory thing, I am wondering what does the battery do for the rig.
>
> Second dumb question: (afterall it is Monday ha,ha) is the battery recharged by the unit, the rig has a varta battery
>
> Thanks for listening to my dumb questions
>
> SteveQ
>

2223. Re: [Racal6790GM] Re: 6790 Battery DUMB QUESTION

Yahoo group: Racal6790GM
Date: 2013-04-29 12:50:06 UTC
From: mstangelo@...
Topic: 2221 Message: 2223

When my battery died I decided to replace the Varta battery with an external battery holder and cells. This makes it easier to replace weak batteries and AA cells are much cheaper than the Varta battery.

I removed the original Varta battery, cleaned the board, and connected a two cell AA battery holder to the plus and minus vias. I removed one od the 4-40 screws holding the CPU board, installed a 4-40 standoff and mounted the barrety holder onto the standoff.

I use two AA NiMH batteries. I prefer this to having to remove solder from the CPU board.

Mike N2MS

----- Original Message -----
From: reece_k1 <reece_k1@...>
To: Racal6790GM@yahoogroups.com
Sent: Mon, 29 Apr 2013 12:42:05 -0000 (UTC)
Subject: [Racal6790GM] Re: 6790 Battery DUMB QUESTION

Hi Steve, the battery is internally recharged, if it is over 10 years old I would replace it.
It stores frequency, mode (usb), filter info, etc, if the battery has died I would replace it and do a BITE test.

Reece.

--- In Racal6790GM@yahoogroups.com, Steve Quinn <squinn12345@...> wrote:
>
> Ok call me dumb but what exactly is the battery in the 6790 used for. In a computer the battery will hold the clock and time when the power is turned off, but with out memory scan capability and any other memory thing, I am wondering what does the battery do for the rig.
>
> Second dumb question: (afterall it is Monday ha,ha) is the battery recharged by the unit, the rig has a varta battery
>
> Thanks for listening to my dumb questions
>
> SteveQ
>

2224. 6790 ISB Board and filters available

Yahoo group: Racal6790GM
Date: 2013-05-03 18:59:38 UTC
From: ka9p@...
Topic: 2224 Message: 2224

Howdy,

As a result of spring garage cleaning I found one more box that had an A5 rev D ISB board and a pair of the matched USB/LSB crystal filters 8409/8410 that should have a new home.

The board is untested, really, as in not known bad, as I pulled it a couple years ago from a receiver missing the main board, the filters came from another similarly situated orphan missing several other boards, and I had set them aside for a rainy day project. The filters seem to have the appropriate bandwidth and passed signal when inserted into my test mule receiver but haven't been checked thru byte or swept. The 8409 pins wiggle a bit but not so much that they push back in the filter housing or short to the case as near as I can tell when I put them in the mule, but should be stabilized.

I'll ask $200 Paypal for the lot AS IS plus shipping if anyone is interested before they head to E swamp, tell me I'm whack if the price seems high and you really want them, and will consider any interesting trades if I get no cash takers (or if the trade is really good :) for some combination of decently used stuff selected from the group consisting of a good Fluke VOM, RF or scope probes, an SX122 working or parts radio as long as it has the bandspread cap, 455 khz cw or am filters that can be made to work in an elderly HQ215, or 9 mhz cw/ am filters like the old McCoys as I'm building a vintage project, any R4C roofing filter or switch boards, or a 3 or 4 khz R4C bandpass filter). Or anything else that guys of our ilk might like, as long as it's something I can use and won't put back in a box in the garage......

Thanks, Scott ka9p

2225. ISB card and filters gone

Yahoo group: Racal6790GM
Date: 2013-05-03 22:11:00 UTC
From: ka9p@...
Topic: 2225 Message: 2225

Thanks everyone for your interest. Scott

2226. 6790/GM for sale

Yahoo group: Racal6790GM
Date: 2013-05-09 02:40:10 UTC
From: ka9p@...
Topic: 2226 Message: 2226

I've decided to part with a 6790/GM that's been put together from odd bits of kit and used as a test mule to sort scavenged receiver components.

Fitted filters are all crystal - 2.7 USB, 2.7 LSB, 1.2, 3.4, 6.8 and 16 khz.

Keypads/displays good, lighting is incandescent but good.

New battery fitted in April, and I think there is an A7 internal shield cover missing, serial number plate on front missing. A purist might note a bit of tuning shaft vibration if run quickly which I think is a missing washer easily remedied if you noticed it and it bothered you. Case has rack rollers fitted.

Radio passes BITE but for a 15 error code (sometimes it passes when used recently, but almost sure to show up if it's cold) , which as I understand it has to do with synthesizer level being inconsistent with what BITE expects but works fine.

I'm sure it could use an alignment but appears to be working well.

I really don't want to ship it, so for now it's pick up in western 'burbs of Chicago or at Dayton on Friday for $450 AS IS PICKED UP but as described and working generally. If it doesn't sell before or at Dayton I'll consider shipping it at a different price but really don't want to if I don't have to so pick up has preference.

Thanks, Scott

2227. Filter identification

Yahoo group: Racal6790GM
Date: 2013-05-14 07:07:00 UTC
From: reece_k1
Topic: 2227 Message: 2227

Hi all, I received the filter and it was advertised as a 455CF 2.1Khz BW Xtal filter for A Kenwood R-820 or TS-830S, I am doubting this!!
Can anyone identify what radio/s this filter was designed for?
Bottom view:
http://i66.photobucket.com/albums/h244/Reecehk/Filter_zps68d8acbe.jpg
Top view:
http://i66.photobucket.com/albums/h244/Reecehk/Filtertop_zps71540d55.jpg

2228. 2.1Khz filter test

Yahoo group: Racal6790GM
Date: 2013-05-14 11:19:24 UTC
From: reece_k1
Topic: 2228 Message: 2228

First off I removed the 1.2Khz filter and checked the resistance of the output, is roughly 6.5K. I next removed the 3.24Khz filter and the output is HiZ (open), seems odd, both filters are Racal genuine.
I took a guess at the input of the 2.1Khz filter as being on the left in respect to the label.
I have made an adapter on a piece of veroboard keeping the in and out leads as short as possible and isolated whilst grounded all remaining tracks.
The 1.2Khz signs on as 1.6Khz, the 2.1Khz signs on as 2.0Khz and the 3.24Khz BFO Filter now signs on as 3.3Khz (didn't before).
Here are the following spectrum displays:

1.6Khz:
http://i66.photobucket.com/albums/h244/Reecehk/16Khz_zpsae93fb59.jpg
2.0Khz:
http://i66.photobucket.com/albums/h244/Reecehk/2Khz_zpscb3c8e9d.jpg
3.3Khz
http://i66.photobucket.com/albums/h244/Reecehk/33Khz_zpsc9388305.jpg

Is there any way to widen the bandwidth gap between the 1.6Khz (prefer it to be 1.2Khz) and the 2.0Khz filters?

2229. Re: 2.1Khz filter test

Yahoo group: Racal6790GM
Date: 2013-05-15 12:06:19 UTC
From: reece_k1
Topic: 2228 Message: 2229

Is it normal for the Racal 1.2Khz filter to actually be 1.6Khz wide or could it be a fault of the filter?

--- In Racal6790GM@yahoogroups.com, "reece_k1" <reece_k1@...> wrote:
>
> First off I removed the 1.2Khz filter and checked the resistance of the output, is roughly 6.5K. I next removed the 3.24Khz filter and the output is HiZ (open), seems odd, both filters are Racal genuine.
> I took a guess at the input of the 2.1Khz filter as being on the left in respect to the label.
> I have made an adapter on a piece of veroboard keeping the in and out leads as short as possible and isolated whilst grounded all remaining tracks.
> The 1.2Khz signs on as 1.6Khz, the 2.1Khz signs on as 2.0Khz and the 3.24Khz BFO Filter now signs on as 3.3Khz (didn't before).
> Here are the following spectrum displays:
>
> 1.6Khz:
> http://i66.photobucket.com/albums/h244/Reecehk/16Khz_zpsae93fb59.jpg
> 2.0Khz:
> http://i66.photobucket.com/albums/h244/Reecehk/2Khz_zpscb3c8e9d.jpg
> 3.3Khz
> http://i66.photobucket.com/albums/h244/Reecehk/33Khz_zpsc9388305.jpg
>
> Is there any way to widen the bandwidth gap between the 1.6Khz (prefer it to be 1.2Khz) and the 2.0Khz filters?
>

2230. Re: [Racal6790GM] Re: 2.1Khz filter test

Yahoo group: Racal6790GM
Date: 2013-05-15 14:14:18 UTC
From: Dan Rae
Topic: 2228 Message: 2230

On 5/15/2013 5:06 AM, reece_k1 wrote:
> Is it normal for the Racal 1.2Khz filter to actually be 1.6Khz wide or could it be a fault of the filter?
>
>
BITE will very often, without there being a fault, report a filter width that is greater than the marked width. I assume that is what you are reporting.

Apart from the 3.24 filter most of the specified widths are minimums. So there is some allowance for manufacturing tolerances. Racal also specified the widths differently at different times. Some are widths for 1 dB down, some 3dB. I'm not sure what BITE measures, but it could even be the -6dB points, and I'm not sure how accurately it does that anyway.

This is why I normally do the forced filter entry here and try not to run BITE :^) BITE is not really a lot of use for component level fault finding; it was designed to enable non skilled personnel in the field to make module replacements, that surely doesn't apply to us, does it?

Dan

2231. Re: 2.1Khz filter test

Yahoo group: Racal6790GM
Date: 2013-05-15 23:57:09 UTC
From: reece_k1
Topic: 2228 Message: 2231

Hi Dan, the bandwidth on the spectrum does calculate to 1.6Khz.
I'm, not sure where I heard the forced filter entry, sounds familiar, could you elaborate please?
Thanks,
Reece.

Edit: I just found a doc "2174+forced+filter", is that the one?

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 5/15/2013 5:06 AM, reece_k1 wrote:
> > Is it normal for the Racal 1.2Khz filter to actually be 1.6Khz wide or could it be a fault of the filter?
> >
> >
> BITE will very often, without there being a fault, report a filter width
> that is greater than the marked width. I assume that is what you are
> reporting.
>
> Apart from the 3.24 filter most of the specified widths are minimums.
> So there is some allowance for manufacturing tolerances. Racal also
> specified the widths differently at different times. Some are widths for
> 1 dB down, some 3dB. I'm not sure what BITE measures, but it could even
> be the -6dB points, and I'm not sure how accurately it does that anyway.
>
> This is why I normally do the forced filter entry here and try not to
> run BITE :^) BITE is not really a lot of use for component level fault
> finding; it was designed to enable non skilled personnel in the field to
> make module replacements, that surely doesn't apply to us, does it?
>
> Dan
>

2232. Re: [Racal6790GM] Re: 2.1Khz filter test

Yahoo group: Racal6790GM
Date: 2013-05-16 00:41:01 UTC
From: Dan Rae
Topic: 2228 Message: 2232

On 5/15/2013 4:57 PM, reece_k1 wrote:
> Hi Dan, the bandwidth on the spectrum does calculate to 1.6Khz.
> I'm, not sure where I heard the forced filter entry, sounds familiar, could you elaborate please?
> Thanks,
> Reece.
>
> Edit: I just found a doc "2174+forced+filter", is that the one?
>
The procedure is in all the manuals except maybe the very early one.
Page 3-18 in the one I have here (RCI 84249). I imagine the "doc" you
refer to covers it, I don't know what else it could be...

Dan

2233. Re: 2.1Khz filter test

Yahoo group: Racal6790GM
Date: 2013-05-16 01:40:21 UTC
From: reece_k1
Topic: 2228 Message: 2233

Thanks Dan, that now shows the 1.2 as 1.2 but is actually 1.6, if it is not faulty then I will just leave as is, still happy though, the 2.1 does calculate to 2.1.

Reece.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 5/15/2013 4:57 PM, reece_k1 wrote:
> > Hi Dan, the bandwidth on the spectrum does calculate to 1.6Khz.
> > I'm, not sure where I heard the forced filter entry, sounds familiar, could you elaborate please?
> > Thanks,
> > Reece.
> >
> > Edit: I just found a doc "2174+forced+filter", is that the one?
> >
> The procedure is in all the manuals except maybe the very early one.
> Page 3-18 in the one I have here (RCI 84249). I imagine the "doc" you
> refer to covers it, I don't know what else it could be...
>
> Dan
>

2234. Racal display (Backlit)

Yahoo group: Racal6790GM
Date: 2013-05-24 17:24:16 UTC
From: awanthony@btinternet.com
Topic: 2234 Message: 2234

Hiya,

I have an RA1792 with backlit displays.

The display which shows Frequency is lit intermittently (that's a big word for me !!)

Can any of you folks out there tell me the easiest way to get to this display in order that I may make sure that the bulbs are properly seated.

Thanks,

Adrian.

2235. Re: [Racal6790GM] Racal display (Backlit)

Yahoo group: Racal6790GM
Date: 2013-05-24 17:39:00 UTC
From: Dan Rae
Topic: 2234 Message: 2235

On 5/24/2013 10:24 AM, awanthony@... wrote:
> Hiya,
>
> I have an RA1792 with backlit displays.
>
> The display which shows Frequency is lit intermittently (that's a big word for me !!)
>
> Can any of you folks out there tell me the easiest way to get to this display in order that I may make sure that the bulbs are properly seated.
>
>
The bulbs are soldered on to PC boards which make contact with the front
panel board through the 2 board mounting screws for their 9V AC feed.
You might have a screw loose :^)

Access by removing the front panel and then the LC displays, I'm afraid;
not as daunting as it sounds. Full details in the manual...

From memory: 3 knobs off, five M4 screws with nylon washers and the
panel is off. The displays need to be carefully removed with something
wooden perhaps; they're made of glass after all. Note the orientation,
there's nothing on them to indicate the correct way round.

Dan

2236. ID Tag

Yahoo group: Racal6790GM
Date: 2013-05-25 14:11:11 UTC
From: Keith Densmore
Topic: 2236 Message: 2236

Hi All,
Can't believe it, but I managed to mess up the ID tag for my 6790. (R-2174).
Might someone have a spare?

Thanks,
Keith

2237. Re: [Racal6790GM] Racal display (Backlit)

Yahoo group: Racal6790GM
Date: 2013-05-25 21:14:01 UTC
From: Al
Topic: 2234 Message: 2237

Thank you for the cd.
I never found a manual for the ra1996
Al Royce

Sent from my iPad

On May 24, 2013, at 10:39 AM, Dan Rae <danrae@...> wrote:

> On 5/24/2013 10:24 AM, awanthony@... wrote:
> > Hiya,
> >
> > I have an RA1792 with backlit displays.
> >
> > The display which shows Frequency is lit intermittently (that's a big word for me !!)
> >
> > Can any of you folks out there tell me the easiest way to get to this display in order that I may make sure that the bulbs are properly seated.
> >
> >
> The bulbs are soldered on to PC boards which make contact with the front
> panel board through the 2 board mounting screws for their 9V AC feed.
> You might have a screw loose :^)
>
> Access by removing the front panel and then the LC displays, I'm afraid;
> not as daunting as it sounds. Full details in the manual...
>
> From memory: 3 knobs off, five M4 screws with nylon washers and the
> panel is off. The displays need to be carefully removed with something
> wooden perhaps; they're made of glass after all. Note the orientation,
> there's nothing on them to indicate the correct way round.
>
> Dan
>
>

2238. Re: Racal display (Backlit)

Yahoo group: Racal6790GM
Date: 2013-05-27 17:12:53 UTC
From: awanthony@btinternet.com
Topic: 2234 Message: 2238

Hiya Dan,
Thanks for your prompt reply.

I assume that the AF and RF gain knobs are pull-off.

But how do I remove the large main tuning knob ??

Best Regards,

Adrian.

--- In Racal6790GM@yahoogroups.com, Dan Rae <danrae@...> wrote:
>
> On 5/24/2013 10:24 AM, awanthony@... wrote:
> > Hiya,
> >
> > I have an RA1792 with backlit displays.
> >
> > The display which shows Frequency is lit intermittently (that's a big word for me !!)
> >
> > Can any of you folks out there tell me the easiest way to get to this display in order that I may make sure that the bulbs are properly seated.
> >
> >
> The bulbs are soldered on to PC boards which make contact with the front
> panel board through the 2 board mounting screws for their 9V AC feed.
> You might have a screw loose :^)
>
> Access by removing the front panel and then the LC displays, I'm afraid;
> not as daunting as it sounds. Full details in the manual...
>
> From memory: 3 knobs off, five M4 screws with nylon washers and the
> panel is off. The displays need to be carefully removed with something
> wooden perhaps; they're made of glass after all. Note the orientation,
> there's nothing on them to indicate the correct way round.
>
> Dan
>

2239. Re: [Racal6790GM] Re: Racal display (Backlit)

Yahoo group: Racal6790GM
Date: 2013-05-27 17:35:47 UTC
From: Dan Rae
Topic: 2234 Message: 2239

On 5/27/2013 10:12 AM, awanthony@... wrote:
> Hiya Dan,
> Thanks for your prompt reply.
>
> I assume that the AF and RF gain knobs are pull-off.
>
> But how do I remove the large main tuning knob ??
>
>
ALL the knobs are secured by collets. Remove the central caps (a finger nail is good, since the plastic is very soft) and all will be revealed. Either a screw or a hex nut for the big knob.

Dan

2240. A2A6 Signature Analysis works with BK Precision SA-1010

Yahoo group: Racal6790GM
Date: 2013-05-31 18:25:09 UTC
From: Yves
Topic: 2240 Message: 2240

Hi,

this might be useful for some looking for a signature analyzer to troubleshoot the A2A6 board.
I had to troubleshoot a A2A6 cpu board after a battery leak.
So I looked for a Signature Analyzer, unfortunately the HP5005/5006 ones are still quite expensive. By chance I found one from BK Precision (about 40 EUR), but found no information on compatibility.

Today the SA-1010 arrived and it worked to troubleshoot the A2A6 board on a RA-1792!
within 1/2 hour the remaining issues was located and fixed :-)

Best regards, Yves

2241. SCORE Loopback adapter - how it it wired?

Yahoo group: Racal6790GM
Date: 2013-05-31 18:29:21 UTC
From: Yves
Topic: 2241 Message: 2241

Hi,

now that the A2A6 board on my RA-1792 has been fixed I'm running BITE.
It runs without error from 00..29.
But then I'm stuck, I don't know how the SCORE loopback connector is wired (on 37 D-SUB).
I tried some connections from the RSR32 experience but none seemed to work.
I found no schematic in the manuals.

Does anybody has a source for this information!

Thank you for any hints.

Best regards, Yves

2242. Re: SCORE Loopback adapter - how is it wired?

Yahoo group: Racal6790GM
Date: 2013-05-31 18:56:47 UTC
From: Yves
Topic: 2241 Message: 2242

HI,

I have to apologize - the board in my RA-1792 is a Channel Interface board (ST82455) and not the SCORE board!

Sorry.

vy 73, Yves

--- In Racal6790GM@yahoogroups.com, "Yves" <yves@...> wrote:
>
> Hi,
>
> now that the A2A6 board on my RA-1792 has been fixed I'm running BITE.
> It runs without error from 00..29.
> But then I'm stuck, I don't know how the SCORE loopback connector is wired (on 37 D-SUB).
> I tried some connections from the RSR32 experience but none seemed to work.
> I found no schematic in the manuals.
>
> Does anybody has a source for this information!
>
> Thank you for any hints.
>
> Best regards, Yves
>

2243. Re: [Racal6790GM] Re: Racal display (Backlit)

Yahoo group: Racal6790GM
Date: 2013-06-24 17:56:26 UTC
From: A ANTHONY
Topic: 2234 Message: 2243

Hiya Dan,

I still have not removed the front panel from the RA 1792. Mainly because I use it quite often.

However, I have another problem.

I have an RA 3791 with quite a few options fitted.

If there was an equivalent USA model manufactured then maybe you can help me.

The problem that I have is that the Main Tuning Knob has become very difficult to rotate.

This is mainly when the Receiver is 'Cold', ie before the power supply really warms the unit up.

I don't think that it should be like this.

Any Ideas ??

Best Regards,

Adrian.

2244. Re: [Racal6790GM] Re: Racal display (Backlit)

Yahoo group: Racal6790GM
Date: 2013-06-24 18:22:15 UTC
From: Dan Rae
Topic: 2234 Message: 2244

On 6/24/2013 10:56 AM, A ANTHONY wrote:
>
>
>
>
> I have an RA 3791 with quite a few options fitted.
>
> If there was an equivalent USA model manufactured then maybe you can
> help me.
>
> The problem that I have is that the Main Tuning Knob has become very
> difficult to rotate.
>
Adrian, I had the same problem with my RA3791 here. The cure in my case was to remove the encoder and give it a good seeing to in an ultrasonic cleaning bath using Isopropyl alcohol, after which it felt like new.

There was no US version of that radio only the UK one. But the encoder is american, made by -hp- or Avago now; new ones are available if necessary.

Dan

2245. Fault indicator light

Yahoo group: Racal6790GM
Date: 2013-07-06 23:24:42 UTC
From: ka8znh
Topic: 2245 Message: 2245

Not sure if this has been covered. I cannot find it. Our fault light stays on and the audio is just noise. Can anyone help me? I'm new to the group by the way. Thanks for any help!
Sandra Davis

2246. RE: [Racal6790GM] Fault indicator light

Yahoo group: Racal6790GM
Date: 2013-07-06 23:49:42 UTC
From: MATT PARKINSON
Topic: 2245 Message: 2246

Yep you got troubles .

You need to look at all of the power supply voltages that would a good start would be.

Find out what voltages may be missing .

You need to get a Schematic if you don't have one already .

They can be purchased all over the net.

The Capacitors in that unit fail all the time causing all kinds of issues.

If you can trouble shoot it yourself that would be a great help.

Other wise you need to send your radio out for service.

I can repair them if you need service .

I live on the west coast California .

East coast then Gary Wingerd can help you.

Matt P

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of ka8znh
Sent: Saturday, July 06, 2013 4:25 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Fault indicator light

Not sure if this has been covered. I cannot find it. Our fault light stays on and the audio is just noise. Can anyone help me? I'm new to the group by the way. Thanks for any help!
Sandra Davis

2247. Re: [Racal6790GM] Fault indicator light

Yahoo group: Racal6790GM
Date: 2013-07-07 03:18:31 UTC
From: w7trh@...
Topic: 2245 Message: 2247

Matt, do you happen to know where I would purchase the LCD panels for the 6790. Took mine up to Alaska...got too cold. Now the LCDs are "Bleeding". Otherwise, the receiver is great!

Regards,

Tim AE7TH / AFA0TP

Vashon Island Wa

----- Original Message -----

From: "MATT PARKINSON" <mparkinson1@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, July 6, 2013 4:49:42 PM
Subject: RE: [Racal6790GM] Fault indicator light

Yep you got troubles .

You need to look at all of the power supply voltages that would a good start would be.

Find out what voltages may be missing .

You need to get a Schematic if you don’t have one already .

They can be purchased all over the net.

The Capacitors in that unit fail all the time causing all kinds of issues.

If you can trouble shoot it yourself that would be a great help.

Other wise you need to send your radio out for service.

I can repair them if you need service .

I live on the west coast California .

East coast then Gary Wingerd can help you.

Matt P

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of ka8znh
Sent: Saturday, July 06, 2013 4:25 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Fault indicator light

Not sure if this has been covered. I cannot find it. Our fault light stays on and the audio is just noise. Can anyone help me? I'm new to the group by the way. Thanks for any help!
Sandra Davis

2248. Re: [Racal6790GM] Fault indicator light

Yahoo group: Racal6790GM
Date: 2013-07-07 04:27:07 UTC
From: gewingerd@netzero.net
Topic: 2245 Message: 2248
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2249. Re: [Racal6790GM] Fault indicator light

Yahoo group: Racal6790GM
Date: 2013-07-07 04:30:13 UTC
From: gewingerd@netzero.net
Topic: 2245 Message: 2249
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2250. RE: [Racal6790GM] Racal display

Yahoo group: Racal6790GM
Date: 2013-07-10 23:13:10 UTC
From: MATT PARKINSON
Topic: 2234 Message: 2250

Looking for Gary wingerd home address I need to send some items to him
thanks

Matt P

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On
Behalf Of awanthony@...
Sent: Friday, May 24, 2013 10:24 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Racal display (Backlit)

Hiya,

I have an RA1792 with backlit displays.

The display which shows Frequency is lit intermittently (that's a big word
for me !!)

Can any of you folks out there tell me the easiest way to get to this
display in order that I may make sure that the bulbs are properly seated.

Thanks,

Adrian.

2251. Re: [Racal6790GM] Racal display

Yahoo group: Racal6790GM
Date: 2013-07-13 16:33:23 UTC
From: casy_ch@tbwil.ch
Topic: 2234 Message: 2251

Matt

Have you received an answer from anybody? I sent you a copy of Gary's visit card, but the e-mail came back as not deliverable.

Jean-Claude

Am 11.07.2013 01:13, schrieb MATT PARKINSON:
> Looking for Gary wingerd home address I need to send some items to
> him thanks
>
> Matt P
>
> *From:*Racal6790GM@yahoogroups.com
> [mailto:Racal6790GM@yahoogroups.com] *On Behalf Of
> *awanthony@...
> *Sent:* Friday, May 24, 2013 10:24 AM
> *To:* Racal6790GM@yahoogroups.com
> *Subject:* [Racal6790GM] Racal display (Backlit)
>
> Hiya,
>
> I have an RA1792 with backlit displays.
>
> The display which shows Frequency is lit intermittently (that's a big
> word for me !!)
>
> Can any of you folks out there tell me the easiest way to get to this
> display in order that I may make sure that the bulbs are properly seated.
>
> Thanks,
>
> Adrian.
>
>

2252. RE: [Racal6790GM] Racal display

Yahoo group: Racal6790GM
Date: 2013-07-13 16:51:13 UTC
From: MATT PARKINSON
Topic: 2234 Message: 2252

Contact Gary at this email address gewingerd@...

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of casy_ch@...
Sent: Saturday, July 13, 2013 9:33 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Racal display

Matt

Have you received an answer from anybody? I sent you a copy of Gary's visit card, but the e-mail came back as not deliverable.

Jean-Claude

Am 11.07.2013 01:13, schrieb MATT PARKINSON:

Looking for Gary wingerd home address I need to send some items to him thanks

Matt P

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of awanthony@...
Sent: Friday, May 24, 2013 10:24 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Racal display (Backlit)

Hiya,

I have an RA1792 with backlit displays.

The display which shows Frequency is lit intermittently (that's a big word for me !!)

Can any of you folks out there tell me the easiest way to get to this display in order that I may make sure that the bulbs are properly seated.

Thanks,

Adrian.

2253. Are VLF Eproms still available ?

Yahoo group: Racal6790GM
Date: 2013-08-11 21:56:45 UTC
From: Cliff
Topic: 2253 Message: 2253

Hi all,

I am about to become the owner of this fine receiver to add to my small collection.

Not sure if the VLF eproms are fitted seller wasn't savvy.

Are they still available or could someone make a copy for me if required,

Many thanks
Cliff

2254. Re: [Racal6790GM] Are VLF Eproms still available ?

Yahoo group: Racal6790GM
Date: 2013-08-12 00:40:53 UTC
From: Dan Rae
Topic: 2253 Message: 2254

On 8/11/2013 2:56 PM, Cliff wrote:
> Hi all,
>
> I am about to become the owner of this fine receiver to add to my small collection.
>
> Not sure if the VLF eproms are fitted seller wasn't savvy.
>
> Are they still available or could someone make a copy for me if required,
>
> Many thanks
> Cliff
>
>
>
Cliff, there are at least two LF variants, the "Official" one that still
has the original 1,30, 1000 tuning steps and another that has 1,10 and
100 Hz steps that a lot of folk prefer. However this latter one does
not return the "S" meter readings in remote mode, not that that ever
worried me. I would suggest you find out what you have fitted, and then
decide what you would like. Postage to Oz has got quite expensive
recently also... I have sets of both somewhere.

73 - Dan

ac6ao / g3ncr

2255. RA37xx Spares.

Yahoo group: Racal6790GM
Date: 2013-08-22 20:10:39 UTC
From: davesc50
Topic: 2255 Message: 2255

Hi,

Sorry if this is off topic, so I'll be quick.
I'm looking for a set of key caps for a Racal RA-37xx series radio.
I've just acquired an RA-3792 with a new front panel, but no key caps.

They are a standard Cherry MX series switch, but the caps are smaller than a PC keyboard.
They measure 15x15mm at the base for small caps, and 15x23mm for the large ones.

www.ra1792.co.uk/radios/keys/small1.jpg

www.ra1792.co.uk/radios/keys/big1.jpg

I am looking for a set, or a supplier. Or alternately another product that uses the same physical key. I don't care about colour or legend, I can respray, and reprint.

Ant of the RA37xx serues units including controllers, and transmitters / exciters use the same keys, so any help much appreciated.

Thanks in advance,
Dave. S.

2256. RA37xx Spares.

Yahoo group: Racal6790GM
Date: 2013-08-22 20:11:56 UTC
From: davesc50
Topic: 2255 Message: 2256

Hi,

Sorry if this is off topic, so I'll be quick.
I'm looking for a set of key caps for a Racal RA-37xx series radio.
I've just acquired an RA-3792 with a new front panel, but no key caps.

They are a standard Cherry MX series switch, but the caps are smaller than a PC keyboard.
They measure 15x15mm at the base for small caps, and 15x23mm for the large ones.

www.ra1792.co.uk/radios/keys/small1.jpg

www.ra1792.co.uk/radios/keys/big1.jpg

I am looking for a set, or a supplier. Or alternately another product that uses the same physical key. I don't care about colour or legend, I can respray, and reprint.

Ant of the RA37xx serues units including controllers, and transmitters / exciters use the same keys, so any help much appreciated.

Thanks in advance,
Dave. S.

2257. Sorry.

Yahoo group: Racal6790GM
Date: 2013-08-22 20:43:40 UTC
From: davesc50
Topic: 2257 Message: 2257

Hi,

Sorry. No idea why my messages are popping up twice, sorry for the crappy spelling to. The keyboard on my tablet isn't up to much :-)

Thanks,
Dave. S.

2258. Sorry.

Yahoo group: Racal6790GM
Date: 2013-08-22 20:44:59 UTC
From: davesc50
Topic: 2257 Message: 2258

Hi,

Sorry. No idea why my messages are popping up twice, sorry for the crappy spelling to. The keyboard on my tablet isn't up to much :-)

Thanks,
Dave. S.

2259. Re: [Racal6790GM] RA37xx Spares.

Yahoo group: Racal6790GM
Date: 2013-08-22 20:52:55 UTC
From: casy_ch@tbwil.ch
Topic: 2255 Message: 2259

Hi Dave

There is nothing better than a good PC and a nice working keyboard!!!

The 37XX series has got the same keys, i.e. 3701/3702, 3711/3712, 3791 to 3794.

Try to look at surplus specialists like Telford Electronics. There is a couple of others who I do not know from here. They might have a rig for spare parts.

Regards
Jean-Claude

Am 22.08.2013 22:10, schrieb davesc50:
>
> Hi,
>
> Sorry if this is off topic, so I'll be quick.
> I'm looking for a set of key caps for a Racal RA-37xx series radio.
> I've just acquired an RA-3792 with a new front panel, but no key caps.
>
> They are a standard Cherry MX series switch, but the caps are smaller
> than a PC keyboard. They measure 15x15mm at the base for small caps,
> and 15x23mm for the large ones.
>
> www.ra1792.co.uk/radios/keys/small1.jpg
>
> www.ra1792.co.uk/radios/keys/big1.jpg
>
> I am looking for a set, or a supplier. Or alternately another product
> that uses the same physical key. I don't care about colour or legend,
> I can respray, and reprint.
>
> Ant of the RA37xx serues units including controllers, and transmitters
> / exciters use the same keys, so any help much appreciated.
>
> Thanks in advance,
> Dave. S.
>
>

2260. Re: RA37xx Spares.

Yahoo group: Racal6790GM
Date: 2013-08-23 13:54:44 UTC
From: davesc50
Topic: 2255 Message: 2260

Hi,

Thanks for the tip.
I have already tried Telford Electronics, in fact it was one of the first places on my list.
They can sell me another receiver, but have no spare front panels / scrap units.

I'll keep looking,
Thanks again,
Dave.S.

--- In Racal6790GM@yahoogroups.com, "casy_ch@..." <casy_ch@...> wrote:
>
> Hi Dave
>
> There is nothing better than a good PC and a nice working keyboard!!!
>
> The 37XX series has got the same keys, i.e. 3701/3702, 3711/3712, 3791
> to 3794.
>
> Try to look at surplus specialists like Telford Electronics. There is a
> couple of others who I do not know from here. They might have a rig for
> spare parts.
>
> Regards
> Jean-Claude
>
> Am 22.08.2013 22:10, schrieb davesc50:
> >
> > Hi,
> >
> > Sorry if this is off topic, so I'll be quick.
> > I'm looking for a set of key caps for a Racal RA-37xx series radio.
> > I've just acquired an RA-3792 with a new front panel, but no key caps.
> >
> > They are a standard Cherry MX series switch, but the caps are smaller
> > than a PC keyboard. They measure 15x15mm at the base for small caps,
> > and 15x23mm for the large ones.
> >
> > www.ra1792.co.uk/radios/keys/small1.jpg
> >
> > www.ra1792.co.uk/radios/keys/big1.jpg
> >
> > I am looking for a set, or a supplier. Or alternately another product
> > that uses the same physical key. I don't care about colour or legend,
> > I can respray, and reprint.

> >
> > Ant of the RA37xx serues units including controllers, and transmitters
> > / exciters use the same keys, so any help much appreciated.
> >
> > Thanks in advance,
> > Dave. S.
> >
> >
>

2261. RA6790/GM need backlit display info and parts

Yahoo group: Racal6790GM
Date: 2013-08-25 17:05:12 UTC
From: oiduts2006
Topic: 2261 Message: 2261

Hi,
Who makes replacement parts for the backlight? My LCDs are fine, but the light is fading.

Thanks,
Bob

2262. Re: [Racal6790GM] RA6790/GM need backlit display info and parts

Yahoo group: Racal6790GM
Date: 2013-08-25 22:36:48 UTC
From: gewingerd@netzero.com
Topic: 2261 Message: 2262
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2263. Re: RA6790/GM need backlit display info and parts

Yahoo group: Racal6790GM
Date: 2013-08-29 08:52:58 UTC
From: oiduts2006
Topic: 2261 Message: 2263

Thanks for the reply Gary. Give me a description of them please.

Bob
--- In Racal6790GM@yahoogroups.com, "gewingerd@..." <gewingerd@...> wrote:
>
> Bob,
>
> I have LED Backlights in stock, they are $75.00 each plus shipping.
>
> Gary E Wingerd
> gewingerd@...
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: "oiduts2006" <oiduts2006@...>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] RA6790/GM need backlit display info and parts
> Date: Sun, 25 Aug 2013 17:05:12 -0000
>
>
>
> Hi,
> Who makes replacement parts for the backlight? My LCDs are fine, but the light is fading.
>
> Thanks,
> Bob
>

2264. Re: [Racal6790GM] Re: RA6790/GM need backlit display info and parts

Yahoo group: Racal6790GM
Date: 2013-08-29 09:09:36 UTC
From: gewingerd@netzero.com
Topic: 2261 Message: 2264
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2316. This Group is now Moderated

Yahoo group: Racal6790GM
Date: 2013-09-03 12:26:58 UTC
From: <maxhdrm2@...>
Topic: 2316 Message: 2316

Apologies are in order from yours truly, your moderator for failing to screen the spammers. I dropped moderation some time ago to make access easier for people needing repair info. I'm cleaning up this mess now and group should be back to its original form soon. Thanks for your patients! Max

2318. Re: [Racal6790GM] This Group is now Moderated

Yahoo group: Racal6790GM
Date: 2013-09-03 13:41:53 UTC
From: Tom
Topic: 2316 Message: 2318

Max,

Thanks. Things were getting out of control.

Tom

On 9/3/2013 8:26 AM, maxhdrm2@... wrote:
Apologies are in order from yours truly, your moderator for failing to screen the spammers. I dropped moderation some time ago to make access easier for people needing repair info. I'm cleaning up this mess now and group should be back to its original form soon. Thanks for your patients! Max
>

2319. Re: [Racal6790GM] This Group is now Moderated

Yahoo group: Racal6790GM
Date: 2013-09-03 13:43:39 UTC
From: Frank Hoffman
Topic: 2316 Message: 2319

Thank you. I was just going to block the site because of the spam. Kudos
for what you do. THX FH

On Tue, Sep 3, 2013 at 7:26 AM, <maxhdrm2@...> wrote:

>
>
> Apologies are in order from yours truly, your moderator for failing to
> screen the spammers. I dropped moderation some time ago to make access
> easier for people needing repair info. I'm cleaning up this mess now and
> group should be back to its original form soon. Thanks for your patients!
> Max
>
>
>

--
Frank Hoffman, PE
frankh1067@...
Cell 612-202-5817

2320. Re: This Group is now Moderated

Yahoo group: Racal6790GM
Date: 2013-09-03 14:21:07 UTC
From: BW PITMAN
Topic: 2316 Message: 2320

Hi Max,
Just want to add my thanks to those of the others. You do a good job on a site I find very useful.
Thanks once again
Bryan

2321. Re: [Racal6790GM] Re: This Group is now Moderated

Yahoo group: Racal6790GM
Date: 2013-09-03 14:36:13 UTC
From: Bob Betts
Topic: 2316 Message: 2321

Hi Max:
I also have been having problems with a few Yahoo groups that I own and several others that I belong to. It seems that since they rolled out the new NEO format, the system is full of bugs and vulnerabilities. Hopefully, Yahoo will fix this mess or return to the old system that has been fairly well de-bugged over the years.
Thanks for all you do.
Bob, N1KPR

http://www.bobsamerica.com
http://www.youtube.com/n1kpr

_____
From: BW PITMAN <shipwrights.cottered@...>
To: "Racal6790GM@yahoogroups.com" <Racal6790GM@yahoogroups.com>
Sent: Tuesday, September 3, 2013 10:21 AM
Subject: [Racal6790GM] Re: This Group is now Moderated

Hi Max,
Just want to add my thanks to those of the others. You do a good job on a site I find very useful.
Thanks once again
Bryan

2322. Re: [Racal6790GM] This Group is now Moderated

Yahoo group: Racal6790GM
Date: 2013-09-03 22:30:48 UTC
From: Terry
Topic: 2316 Message: 2322

On 04/09/13 00:26, maxhdrm2@... wrote:
>
> Apologies are in order from yours truly, your moderator for failing to
> screen the spammers. I dropped moderation some time ago to make access
> easier for people needing repair info. I'm cleaning up this mess now
> and group should be back to its original form soon. Thanks for your
> patients! Max
>
>
Thanks for your efforts Max. Much appreciated.

This is an valuable group especially for advice on servicing and
sourcing RACAL parts and I hope it continues.

Kind regards and 73s to all,
Terry

2323. RE: This Group is now Moderated

Yahoo group: Racal6790GM
Date: 2013-09-03 23:19:54 UTC
From: <reece_k1@...>
Topic: 2316 Message: 2323

Hi Max, thanks for your time and patience in clearing up this mess, I have received a lot of help from this group and really appreciate it.
Cheers,
Reece.

--- In racal6790gm@yahoogroups.com, <terry.waihi@...> wrote:

On 04/09/13 00:26, maxhdrm2@... wrote:

Apologies are in order from yours truly, your moderator for failing to screen the spammers. I dropped moderation some time ago to make access easier for people needing repair info. I'm cleaning up this mess now and group should be back to its original form soon. Thanks for your patients! Max

Thanks for your efforts Max. Much appreciated.

This is an valuable group especially for advice on servicing and sourcing RACAL parts and I hope it continues.

Kind regards and 73s to all,
Terry

2324. Need new picture!!

Yahoo group: Racal6790GM
Date: 2013-09-12 00:33:44 UTC
From: <reece_k1@...>
Topic: 2324 Message: 2324

Hi Max, is it possible to get a new picture shown other that those straw hats?

2325. RA6790/GM alignment - and more

Yahoo group: Racal6790GM
Date: 2013-09-12 07:08:48 UTC
From: Raymond Boute
Topic: 2324 Message: 2325

Dear Max,

It seems I can't reach you via maxhdrm2@..., so I ask my
question here, also because the answer is of general interest to the group.

Among the documents on the site, you posted a very informative
document about alignments for the Racal6790/GM. It is Chapter 3 from
some book. How can one obtain the complete book?

Regards

Raymond

2326. RE: RA6790/GM alignment - and more

Yahoo group: Racal6790GM
Date: 2013-09-14 11:33:12 UTC
From: <maxhdrm2@...>
Topic: 2324 Message: 2326

Hi and sorry for the delay. As I recall this manual was written for depot level maintenance that requires highly specialized electronic fixtures. Unless you had a fixture for each sub assembly these chapters would be useless. I believe that the only organization to have had the repair fixtures was the USAF. My source for the manual was Gary Wingerd who has been present on this forum from time to time. He is the authority on this subject , I remain just the janitor.
Thanks for your interest in the Racal 6790gm! Max

--- In Racal6790GM@yahoogroups.com, <racal6790gm@yahoogroups.com> wrote:

Dear Max,

It seems I can't reach you via maxhdrm2@comcast.net, so I ask my
question here, also because the answer is of general interest to the group.

Among the documents on the site, you posted a very informative
document about alignments for the Racal6790/GM. It is Chapter 3 from
some book. How can one obtain the complete book?

Regards

Raymond

2327. Re: [Racal6790GM] This Group is now Moderated

Yahoo group: Racal6790GM
Date: 2013-09-03 13:18:00 UTC
From: Carlo Onorato
Topic: 2316 Message: 2327

Il 03/09/2013 14:26, maxhdrm2@... ha scritto:
>
> Apologies are in order from yours truly, your moderator for failing to
> screen the spammers. I dropped moderation some time ago to make access
> easier for people needing repair info. I'm cleaning up this mess now
> and group should be back to its original form soon. Thanks for your
> patients! Max
>
>
>
> Nessun virus nel messaggio.
> Controllato da AVG - www.avg.com <http://www.avg.com>
> Versione: 2013.0.3392 / Database dei virus: 3222/6629 - Data di
> rilascio: 01/09/2013
>
Thanks a lot Max.
Carlo I1KAR

--
Carlo Onorato
Via Castellaro 3
10060 Frossasco (TO)
cell. 0039-3480830055

2328. Petiton change Yahoo groups back

Yahoo group: Racal6790GM
Date: 2013-09-25 19:45:15 UTC
From: <jcaldwell@...>
Topic: 2328 Message: 2328

All,
This petition was started by someone on the Manual_Exchange group. No idea if it will work, but I figure we have nothing to loose....

http://www.change.org/petitions/yahoo-groups-i-want-the-old-yahoo-groups-back?share_id=buBZXMOplr&utm_campaign=signature_receipt&utm_medium=email&utm_source=share_petition

John WD8INC

2329. ISB Filters

Yahoo group: Racal6790GM
Date: 2013-11-04 18:25:07 UTC
From: <k2az@...>
Topic: 2329 Message: 2329

I, like others, need an USB filter for the ISB board. If anyone comes across one, keep us in mind.

John

2330. filter selection

Yahoo group: Racal6790GM
Date: 2013-11-12 01:27:37 UTC
From: <k2az@...>
Topic: 2330 Message: 2330

I am still getting used to this receiver, In the AM and CW modes I can select .4, 1.5, 3.5, 8.7 or 10 kHz filter. In the USB and LSB mode I cannot select a filter.. I assume the receiver selects the single designated SSB filter. Is that right? Which filter (BW) is used for SSB. I find it a bit too wide in some cases. Is there any way to vary the BW on SSB.

John. ..

2331. Mode Meter Display

Yahoo group: Racal6790GM
Date: 2013-11-12 01:26:53 UTC
From: <k2az@...>
Topic: 2331 Message: 2331

The left (mode/meter) display on my radio is not bright and hard to read unless the light is just right. The frequency display is better (but not great).Any solution?

Johm

2332. Main Tuning Knod set screw

Yahoo group: Racal6790GM
Date: 2013-11-17 04:47:40 UTC
From: <k2az@...>
Topic: 2332 Message: 2332

Can anyone tell me what type of head is on the Main Tuning Knob set screw? It looks like it might be a hex (Alan wrench) but I cant get one to fit. How can I remove the knob?

Thanks
John K2AZ.

2333. Re: [Racal6790GM] Main Tuning Knod set screw

Yahoo group: Racal6790GM
Date: 2013-11-17 17:22:17 UTC
From: Dan Rae
Topic: 2332 Message: 2333

On 11/16/2013 8:47 PM, k2az@... wrote:
>
>
> Can anyone tell me what type of head is on the Main Tuning Knob set screw?
>
5/64" hex, John

73 - Dan

ac6ao

2334. RE: Main Tuning Knod set screw

Yahoo group: Racal6790GM
Date: 2013-11-17 23:25:46 UTC
From: <reece_k1@...>
Topic: 2332 Message: 2334

2mm Alan key fits snug!!

---In racal6790gm@yahoogroups.com, <danrae@...> wrote:

On 11/16/2013 8:47 PM, k2az@... mailto:k2az@... wrote:

Can anyone tell me what type of head is on the Main Tuning Knob set screw?

5/64" hex, John

73 - Dan

ac6ao

2335. Re: [Racal6790GM] RE: Main Tuning Knob set screw

Yahoo group: Racal6790GM
Date: 2013-11-17 23:33:37 UTC
From: Dan Rae
Topic: 2332 Message: 2335

On 11/17/2013 3:25 PM, reece_k1@... wrote:
>
>
> 2mm Alan key fits snug!!
>
>
Maybe, but being American, they don't believe in Metric units :^)

The three that are useful for Racal US, and a lot of -hp- come to that,
are 0.05" 1/16" and 5/64" hex

Dan
>
>
> ---In racal6790gm@yahoogroups.com, <danrae@...> wrote:
>
> On 11/16/2013 8:47 PM, k2az@... <mailto:k2az@...> wrote:
>
>> Can anyone tell me what type of head is on the Main Tuning Knob
>> set screw?
>>
> 5/64" hex, John
>
> 73 - Dan
>
> ac6ao
>
>
>
>

2336. Re: [Racal6790GM] Main Tuning Knod set screw

Yahoo group: Racal6790GM
Date: 2013-11-17 18:31:02 UTC
From: John Maikisch
Topic: 2332 Message: 2336

Thanks much. I think it might be a little worn.

John

----- Original Message -----

From: "Dan Rae" <danrae@...>
To: Racal6790GM@yahoogroups.com
Sent: Sunday, November 17, 2013 9:22:17 AM
Subject: Re: [Racal6790GM] Main Tuning Knod set screw

On 11/16/2013 8:47 PM, k2az@... wrote:

Can anyone tell me what type of head is on the Main Tuning Knob set screw?

5/64" hex, John

73 - Dan

ac6ao

2337. OMG HELP Needed.....Phill Simmons

Yahoo group: Racal6790GM
Date: 2013-12-16 11:05:39 UTC
From: Phill Simmons
Topic: 2337 Message: 2337

Hello,

I am sorry for reaching you rather too late due to the situation of things right now.My family and I had a trip visiting Kharkov Ukraine,everything was going on fine until last night when we got attacked by some unknown gunmen. All our money,phones and credit cards was stolen away including some valuable items, It was a terrible experience but the good thing is that they didn't hurt anyone or made away with our passports.

We have reported the incident to the local authorities and the consulate but their response was too casual, we were ask to come back in 2 weeks time for investigations to be made proper,But the truth is we can't wait till then as we have just got our return flight booked and is leaving in few hours from now but presently having problems sorting out our bills here and also getting a cab down to the airport, Right now we're financially strapped due to the unexpected robbery attack, Wondering if you can help us with a quick loan to sort out our bills and get back home. All we need is (£2,200 GBP) I promise to refund you in full as soon as I return home hopefully tomorrow or next. write back now to let me know what you can do.

Thank You.

Phill...

2338. Re: [Racal6790GM] OMG HELP Needed.....Phill Simmons

Yahoo group: Racal6790GM
Date: 2013-12-16 11:51:31 UTC
From: Raymond Boute
Topic: 2337 Message: 2338

Dear Phill,

I'd like to help but:
(a) I don't have that amount on the bank, so
it'll have to be less (but others may be able to give partial help too).
(b) How can I get the money to you in time for being of any use?
(c) How do I know it's you, and not some hacker
from Nigeria? E.g.; tell me something only you and I know.

Regards,

Raymond

==========

At 12:05 2013-12-16, you wrote:
>
>
>Hello,
>
>I am sorry for reaching you rather too late due
>to the situation of things right now.My family
>and I had a trip visiting Kharkov
>Ukraine,everything was going on fine until last
>night when we got attacked by some unknown
>gunmen. All our money,phones and credit cards
>was stolen away including some valuable items,
>It was a terrible experience but the good thing
>is that they didn't hurt anyone or made away with our passports.
>
> We have reported the incident to the local
> authorities and the consulate but their
> response was too casual, we were ask to come
> back in 2 weeks time for investigations to be
> made proper,But the truth is we can't wait till
> then as we have just got our return flight
> booked and is leaving in few hours from now but
> presently having problems sorting out
> our bills here and also getting a cab down to
> the airport, Right now we're financially
> strapped due to the unexpected robbery attack,
> Wondering if you can help us with a quick loan
> to sort out our bills and get back home. All we
> need is (£2,200 GBP) I promise to refund you
> in full as soon as I return home hopefully
> tomorrow or next. write back now to let me know what you can do.

>
>
>Thank You.
>
>Phill...
>

2339. Re: [Racal6790GM] OMG HELP Needed.....Phill Simmons

Yahoo group: Racal6790GM
Date: 2013-12-16 15:28:49 UTC
From: Bob Betts
Topic: 2337 Message: 2339

Check the full source and return headers.
It appears that his mail account (address book) has been hacked/phished.

Tha verbage to that message is several years old...almost to the word.
Phil needs to re-secure his account and the hackers will move on to the next victim.

Bob

From: Phill Simmons <phill.simmons@talk21.com>
To:
Sent: Monday, December 16, 2013 6:05 AM
Subject: [Racal6790GM] OMG HELP Needed.....Phill Simmons

Hello,

I am sorry for reaching you rather too late due to the situation of things right now.My family and I had a trip visiting Kharkov Ukraine,everything was going on fine until last night when we got attacked by some unknown gunmen. All our money,phones and credit cards was stolen away including some valuable items, It was a terrible experience but the good thing is that they didn't hurt anyone or made away with our passports.

We have reported the incident to the local authorities and the consulate but their response was too casual, we were ask to come back in 2 weeks time for investigations to be made proper,But the truth is we can't wait till then as we have just got our return flight booked and is leaving in few hours from now but presently having problems sorting out our bills here and also getting a cab down to the airport, Right now we're financially strapped due to the unexpected robbery attack, Wondering if you can help us with a quick loan to sort out our bills and get back home. All we need is (£2,200 GBP) I promise to refund you in full as soon as I return home hopefully tomorrow or next. write back now to let me know what you can do.

Thank You.

Phill...

2340. RE: OMG HELP Needed.....Phill Simmons

Yahoo group: Racal6790GM
Date: 2013-12-16 23:19:58 UTC
From: <reece_k1@...>
Topic: 2337 Message: 2340

Amazing what lengths these scammers will go!!! Wonder if they stole his RACAL?

2341. Re: [Racal6790GM] RE: OMG HELP Needed.....Phill Simmons

Yahoo group: Racal6790GM
Date: 2013-12-17 01:31:53 UTC
From: Bob Betts
Topic: 2337 Message: 2341

You can steal my credit cards and my passport, but don't you touch my 6790 !!!

To keep it on topic: Passwords are getting easier to hack with the improving sophistication of some of the phishing software.
E-mail and Web site passwords should be a mixture of numerals and letters, both upper and lower case. It's a good idea to use punctuation where allowed. Changing your password on occasion helps too.
Common names and items are considered Low-Security passwords. EG; robert47, kittycat12, cornflakes88, 68camaro, fisherman1981, etc, etc.
One well-known scanning program cracked several hundred L-S passwords, one each, on a 3 minute average...processing thousands of combinations per second. And that was a while ago ... and is considered slow today.
If you read some of the crypto-security info available on Internet, I guarantee it'll be an eye opener.

Good signals to all,

Bob, N1KPR

http://www.bobsamerica.com
http://www.youtube.com/n1kpr

From: "reece_k1@..." <reece_k1@...>
To: Racal6790GM@yahoogroups.com
Sent: Monday, December 16, 2013 6:19 PM
Subject: [Racal6790GM] RE: OMG HELP Needed.....Phill Simmons

Amazing what lengths these scammers will go!!! Wonder if they stole his RACAL?

2342. A5 ISB boards

Yahoo group: Racal6790GM
Date: 2013-12-17 17:54:12 UTC
From: Dan Rae
Topic: 2342 Message: 2342

John Nelson gw4frx was offering one of these on the Premium Rx reflector. Although this one is for the RA1792 it will work equally well in the GM, /assuming you have the necessary filters fitted/. It has IF outputs for both sidebands fitted unlike the GM version which only has the one, otherwise identical.

John's email is honeyway at outlook.com

73 - Dan

ac6ao / g3ncr

2343. Christmas Greetings

Yahoo group: Racal6790GM
Date: 2013-12-24 07:26:03 UTC
From: <reece_k1@...>
Topic: 2343 Message: 2343

I'd like to wish everyone here a blessed Christmas and a happy new year.
Cheers,
Reece.

2344. Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-03 10:24:25 UTC
From: <reece_k1@...>
Topic: 2344 Message: 2344

I have been playing around with the IF output of the 6790 and it doesn't seem to work as a panadapter. I'm not sure if there is a problem with my SDR setup or if it's a problem with the IF output from the Racal.
Anyone have any ideas?

2345. Re: [Racal6790GM] Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-03 11:07:19 UTC
From: Tom Frobase
Topic: 2344 Message: 2345

I use a soft rock lite setup for 455khz, cost about $20 at Dayton, on my R-390A. Only can see the bandpass I use it for a high end demodulator. Works well for this ... Tom, n3lll

On Friday, January 3, 2014, wrote:

>
>
> I have been playing around with the IF output of the 6790 and it doesn't
> seem to work as a panadapter. I'm not sure if there is a problem with my
> SDR setup or if it's a problem with the IF output from the Racal.
> Anyone have any ideas?
>
>

2346. RE: Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-03 11:20:58 UTC
From: <poldhu1901@...>
Topic: 2344 Message: 2346

Hi Reece

For an IF output to be used to feed a panadaptor the bandwidth available at that output needs to be as wide as the band of signals you wish to monitor.
The standard IF output on the 6790 is the single signal filtered output taken from 455KHz second IF and is not suitable for feeding a panadaptor.
That output could be used as a fixed frequency feed to an SDR to allow digital demodulation and processing but tuning would still need to be carried out from the 6790.

Regards

Nigel
GM8PZR

2347. RE: Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-03 23:31:27 UTC
From: <reece_k1@...>
Topic: 2344 Message: 2347

I understand what you are saying Nigel, I don't suppose anyone here would know where, if possible, a take off point would be? I could purchase and use a buffer amp from Clifton Laboratories.
I realize there is no rig control but point and click within the displayed bandwidth would still be a big plus.

2348. Re: [Racal6790GM] RE: Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-04 09:04:42 UTC
From: poldhu1901@...
Topic: 2344 Message: 2348

In a message dated 03/01/2014 23:31:30 GMT Standard Time,
reece_k1@yahoo.com.au writes:

I understand what you are saying Nigel, I don't suppose anyone here would know where, if possible, a take off point would be? I could purchase and use a buffer amp from Clifton Laboratories.
I realize there is no rig control but point and click within the displayed bandwidth would still be a big plus.

Hi Reece

The 6790 has a 40.455 MHz first IF, so theoretically at least that allows the potential for higher bandwidth, but there's a 20 KHz wide 40.455 MHz roofing filter connected directly to the output of the first mixer which limits in turn the bandwidth of the 455 KHz second IF before that's passed for further filtering to the 2nd IF filters on the A4 board.

So you either need to accept that 20KHz is going to be the maximum bandwith available to you, at either 455KHz or 40.455MHz, or you'll need to tap off the 40.455 MHz first IF immediately at the output of the first mixer where it feeds into the roofing filter.

Whilst the latter is again theoretically possible it starts to get a bit more complex and I don't know offhand what the bandwidth would be at that point anyway.

It might be a fun exercise to try with one of the R820T based RTL dongles, they should be able to tune down to under 30MHz, but even with a buffer amp it's going to be a bit of a tricky operation tapping off that signal.
Aside from any loading and coupling effects there's also a possible risk of damage to the first mixer if you get it wrong.

Regards

Nigel
GM8PZR

2349. Re: [Racal6790GM] RE: Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-04 09:14:50 UTC
From: poldhu1901@...
Topic: 2344 Message: 2349

In a message dated 03/01/2014 23:31:30 GMT Standard Time,
reece_k1@yahoo.com.au writes:

I understand what you are saying Nigel, I don't suppose anyone here would know where, if possible, a take off point would be? I could purchase and use a buffer amp from Clifton Laboratories.
I realize there is no rig control but point and click within the displayed bandwidth would still be a big plus.

Another option, that I've used with other quality ex-mil receivers, would be to run an SDR from the same antenna as your 6790 and use that as a wideband "spotting scope".

I know you're not seeing exactly what's coming through the 6790's IF system but it should be a good enough approximation that allows you to tune the 6790 to signals you might otherwise miss.

Regards

Nigel
GM8PZR

2350. Re: [Racal6790GM] RE: Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-04 01:48:34 UTC
From: FRANCIS CARCIA
Topic: 2344 Message: 2350

The IF output level is fairly high around -10dBM so you might need to attenuate it ahead of a softrock.
It might be better to pick off the signal ahead of the 455 kHz filters. Frank WA1GFZ

From: "poldhu1901@..." <poldhu1901@...>
To: Racal6790GM@yahoogroups.com
Sent: Friday, January 3, 2014 6:20 AM
Subject: [Racal6790GM] RE: Panadapter

Hi Reece

For an IF output to be used to feed a panadaptor the bandwidth available at that output needs to be as wide as the band of signals you wish to monitor.
The standard IF output on the 6790 is the single signal filtered output taken from 455KHz second IF and is not suitable for feeding a panadaptor.
That output could be used as a fixed frequency feed to an SDR to allow digital demodulation and processing but tuning would still need to be carried out from the 6790.

Regards

Nigel
GM8PZR

2351. RE: Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-04 11:53:58 UTC
From: <g0nbd@...>
Topic: 2344 Message: 2351

On of the £5 usb dongles would do the job as they tune down to 25 MHz
, would display 40 MHz directly ... but I would think, the noise floor is much higher than the first mixer in the radio ... which may mask things ?

G,

2352. RE: Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-04 12:18:02 UTC
From: <reece_k1@...>
Topic: 2344 Message: 2352

I'll have to give that some thought, I do like to be adventurous, would be interesting to see how wide the 40Mhz IF is. I will probably in the near future place an order for the buffer kit. I don't see any problems using an RTL dongle and HDSDR.
May take awhile before I try it though.
Thanks.

2353. RE: Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-04 13:01:50 UTC
From: <g0nbd@...>
Topic: 2344 Message: 2353

I think there was a pan-adaptor add on for the 1792 , A look at the interface cct would give a indication as to how and where to connect up

The ra17 adaptor tuned the 2/3 MHz If , ie, the out put of the 1MHz block down converter , the adaptor was able to detect signals under the noise , by integration, the tube was blue first - yellow afterglow radar type

Using softrock at the 455k IF , its possible to out perform the ssb detector with software , but the dongle has a much higher noise floor , so it may not emulate the 'real thing'

Good Luck , what every you do , make sure you can un-do or the resale value takes a big hit in years to come !

G,

2354. Re: [Racal6790GM] RE: Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-04 13:43:05 UTC
From: FRANCIS CARCIA
Topic: 2344 Message: 2354

The 6790 first IF is 20 to 25kHz wide unless you have the VLF radio which has 8kHz filters in the first IF.
A series isolation resistor of around 2kohms at the input of the IF filter bus should be enough isolation to a softrock. There is plenty of gain ahead of the filters. Then the soft rock tuned to 455 kHz would track the radio, I designed and built my own version of the softrock and used it with my RA6830. It was really cool then went to HPSDR. gfz

---
From: "poldhu1901@..." <poldhu1901@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, January 4, 2014 4:14 AM
Subject: Re: [Racal6790GM] RE: Panadapter

In a message dated 03/01/2014 23:31:30 GMT Standard Time,
reece_k1@... writes:
>I understand what you are saying Nigel, I don't suppose anyone here would know where, if possible, a take off point would be? I could purchase and use a buffer amp from Clifton Laboratories.
>I realize there is no rig control but
point and click within the displayed bandwidth would still be a big
plus.
Another option, that I've used with other
quality ex-mil receivers, would be to run an SDR from the same antenna as
your 6790 and use that as a wideband "spotting scope".

I know you're not seeing exactly what's coming
through the 6790's IF system but it should be a good enough approximation that
allows you to tune the 6790 to signals you might otherwise miss.

Regards

Nigel
GM8PZR

>

2355. Re: RA1792 Mk4 firmware (BITE+Mk3 A7)

Yahoo group: Racal6790GM
Date: 2014-01-07 10:12:27 UTC
From: John Graham
Topic: 2355 Message: 2355
Attachments: 1 described; binary payloads are missing from this source WARC

I have a Racal RA1792 Mk4 receiver (2-EPROM ST082912 A6A2 card with BITE, but Mk3 ST80788 non-LSI 1st LO Synthesiser).
Unfortunately the EPROMs are missing from the original A6A2 card and I am having to run the Rx with an older A6A2 card with a 3-EPROM RA1792 firmware set.

1) are later 2-EPROM firmware versions for the Mk4 LSI A7 LO card backwards-compatible with the Mk3 non-LSI 1st LO Synthesiser ?

2) if not, does anyone have an EPROM set for my configuration that they could copy? (I have the wherewithal to burn EPROMs here).
I'd prefer a version that supports 1Hz tuning but that's a secondary consideration. Either filter type GA or GB would be fine.

If my reading of the firmware versions listing is correct (and I'm by no means sure since it does not distinguish between versions that use 2 and 3 PROMs!), versions that support Mk3+BITE include: P83045, P83046, P85671, P85679, P85870, P83048, P83047 (others in the list either have weird sideband filters or other extra options such as the BCD Channel Interface or panadaptor).

That's the theory, but I'd have more confidence in something that is actually in use and known to work!

thanks,

John G.

2356. Re: [Racal6790GM] Re: RA1792 Mk4 firmware (BITE+Mk3 A7)

Yahoo group: Racal6790GM
Date: 2014-01-07 16:00:04 UTC
From: Dan Rae
Topic: 2355 Message: 2356

On 1/7/2014 2:12 AM, John Graham wrote:
>
>
> I have a Racal RA1792 Mk4 receiver (2-EPROM ST082912 A6A2 card with
> BITE, but Mk3 ST80788 non-LSI 1st LO Synthesiser).
> Unfortunately the EPROMs are missing from the original A6A2 card and I
> am having to run the Rx with an older A6A2 card with a 3-EPROM RA1792
> firmware set.
> 1) are later 2-EPROM firmware versions for the Mk4 LSI A7 LO card
> backwards-compatible with the Mk3 non-LSI 1st LO Synthesiser ?
John,

According to my notes, the Mk3 synth and the Mk4 (LSI) A7 version
require different firmware because the data line are different, and are
totally incompatible. So, no!
> 2) if not, does anyone have an EPROM set for my configuration that
> they could copy? (I have the wherewithal to burn EPROMs here).
> I'd prefer a version that supports 1Hz tuning but that's a secondary
> consideration. Either filter type GA or GB would be fine.
> If my reading of the firmware versions listing is correct (and I'm by
> no means sure since it does not distinguish between versions that use
> 2 and 3 PROMs!),
The cut off / changeover point on that list you extracted is below the
first two items P90075 and 76, these are the latest three eprom versions
most commonly found on surplus sets. From there on you have the two
eprom versions, and be aware that they used 2532 eproms, not the now
more common 2732 and these aren't easy to find. Racal did make an
adaptor to enable the use of 2732s.

As far as I can tell, the part of the list that you copied is apposite
for your set, but I'm afraid I don't have any of the ones you need in my
small collection.

73 - Dan

ac6ao / g3ncr

2357. Re: RA1792 Mk4 firmware (BITE+Mk3 A7)

Yahoo group: Racal6790GM
Date: 2014-01-08 11:20:04 UTC
From: John Graham
Topic: 2355 Message: 2357

Racal 6790/GMHi Dan,

Thanks for confirming the Mk3/LSI incompatibility; I thought that might be the case but wanted to be sure.

Phill Simmons was able to provide a copy of the P83045 firmware, so I shall give that a try - I do have some 2532 EPROMs, which are allegedly new.
BTW, Elektor published a PCB layout for a 2532 to 2732 adaptor, too.
I don't know yet whether the A6A2 card itself is functional, but shall no doubt find out soon (at least it uses sockets).....

73,

John

From: Racal6790GM@yahoogroups.com
Sent: Wednesday, January 08, 2014 10:34 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Digest Number 868

Racal 6790/GM Group 1 New Message Digest #868 1a Re: RA1792 Mk4 firmware (BITE+Mk3 A7) by "Dan Rae" ac6ao

Message
1a Re: RA1792 Mk4 firmware (BITE+Mk3 A7) Tue Jan 7, 2014 7:59 am (PST) . Posted by: "Dan Rae" ac6ao On 1/7/2014 2:12 AM, John Graham wrote:
>
>
> I have a Racal RA1792 Mk4 receiver (2-EPROM ST082912 A6A2 card with
> BITE, but Mk3 ST80788 non-LSI 1st LO Synthesiser).
> Unfortunately the EPROMs are missing from the original A6A2 card and I
> am having to run the Rx with an older A6A2 card with a 3-EPROM RA1792
> firmware set.
> 1) are later 2-EPROM firmware versions for the Mk4 LSI A7 LO card
> backwards-compatible with the Mk3 non-LSI 1st LO Synthesiser ?
John,

According to my notes, the Mk3 synth and the Mk4 (LSI) A7 version
require different firmware because the data line are different, and are
totally incompatible. So, no!
> 2) if not, does anyone have an EPROM set for my configuration that
> they could copy? (I have the wherewithal to burn EPROMs here).
> I'd prefer a version that supports 1Hz tuning but that's a secondary
> consideration. Either filter type GA or GB would be fine.
> If my reading of the firmware versions listing is correct (and I'm by
> no means sure since it does not distinguish between versions that use
> 2 and 3 PROMs!),

The cut off / changeover point on that list you extracted is below the first two items P90075 and 76, these are the latest three eprom versions most commonly found on surplus sets. From there on you have the two eprom versions, and be aware that they used 2532 eproms, not the now more common 2732 and these aren't easy to find. Racal did make an adaptor to enable the use of 2732s.

As far as I can tell, the part of the list that you copied is apposite for your set, but I'm afraid I don't have any of the ones you need in my small collection.

73 - Dan

ac6ao / g3ncr
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2358. Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-12 22:18:14 UTC
From: <vk2ccj@...>
Topic: 2358 Message: 2358

Hi all,

Well turned my Racal 6790/GM on and the fault light came on briefly then nothing, Just showing all 0's on main display and 00 on the small one. No Keypad or VFO control.

All power supply voltages appear ok, the 40mhz LO is working and the 1mhz REF is ok it appears, Audio seems fine.

I am thinking the uP Board /Eproms any help much appreciated

Can't do a bite check as no pads are working.

Appreciate some help
thanks
Cliff vk2ccj

2359. RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-12 22:34:55 UTC
From: <reece_k1@...>
Topic: 2358 Message: 2359

Hi Cliff, what a horrid predicament, I agree that it is likely the CPU board, all I could suggest is checking and cleaning plugs etc. I checked ebay but nothing there, you may have to consider the Z80 board:
http://www.a6a2.co.uk/#/ra6790gm/
All the best.
Reece.

2360. Re: [Racal6790GM] RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-12 23:05:15 UTC
From: Dan Rae
Topic: 2358 Message: 2360

On 1/12/2014 2:34 PM, reece_k1@... wrote:
>
>
> Hi Cliff, what a horrid predicament, I agree that it is likely the CPU
> board, all I could suggest is checking and cleaning plugs etc. I
> checked ebay but nothing there, you may have to consider the Z80 board:
> http://www.a6a2.co.uk/#/ra6790gm/
> All the best.
> Reece.
>
>
Cliff,

All zeros is the reset state of the microprocessor. If all the supply lines are correct, that rules out most of the tantalums, the usual problem when a GM won't start. However there is still one candidate across the reset line itself. Check that first, then see if the Not reset line actually comes up to 5 V and then go from there.

I assume you have no visible damage from the battery; anything looking a bit blue or green? Leaking Nicad damage will usually manifest itself in other ways, rubbish on the displays etc., A dead RAM shows as alternate bad display numbers on the frequency readout, but your micro does not start up, and as you have noticed nothing works that depends on the CPU actually running.

73 - Dan

2361. Re: [Racal6790GM] RE: Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-04 17:39:10 UTC
From: FRANCIS CARCIA
Topic: 2344 Message: 2361

Yup MA2232 I think it is. I have a new one with less than 10 hours on it. The LCD has a bit of a black blotch. Nice unit. sure wish I could find a new display. gfz

---

From: "g0nbd@..." <g0nbd@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, January 4, 2014 8:01 AM
Subject: [Racal6790GM] RE: Panadapter

I think there was a pan-adaptor add on for the 1792 , A look at the interface cct would give a indication as to how and where to connect up

The ra17 adaptor tuned the 2/3 MHz If , ie, the out put of the 1MHz block down converter , the adaptor was able to detect signals under the noise , by integration, the tube was blue first - yellow afterglow radar type

Using softrock at the 455k IF , its possible to out perform the ssb detector with software , but the dongle has a much higher noise floor , so it may not emulate the 'real thing'

Good Luck , what every you do , make sure you can un-do or the resale value takes a big hit in years to come !

G,

2362. F/S: Hammond Steel Enclosure for RA6790GM

Yahoo group: Racal6790GM
Date: 2014-01-08 05:15:04 UTC
From: HL Serra
Topic: 2362 Message: 2362

I have a Hammond black steel case in excellent condx for RA6790GM. The rcvr slides in on rack rails, then is secured by four hex screws and washers (not supplied, get at hardware store) through the four holes in the 6790 front panel.

The case dimensions are 17.5" D x 21" W x 7" H. The 6790 is about 18.5" D with its flanges, so the back flange sticks out about 1/2".

It worked fine for me but I integrated my 6790 into a shelf rack with my ham gear. I thought I'd offer it for sale because it took me years to find an enclosure for the 6790.

$90 plus shipping (it weighs ~18 lbs), and I'll ship in a formed hot foam box.

73, Larry N6NC
hlserra@...

2363. Re: [Racal6790GM] Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-13 01:30:12 UTC
From: gewingerd@netzero.net
Topic: 2358 Message: 2363
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2364. Re: [Racal6790GM] RE: Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-13 08:45:00 UTC
From: poldhu1901@...
Topic: 2344 Message: 2364

The MA2232 is a nice unit but it's a tuning aid, and is quite clearly labelled as such, that takes its input from the IF output on the 1792.

This is not just "splitting hairs", whilst the LCD display does give it a panadapter "look and feel" it's performance is still very much limited by the IF bandwidth of the receiver, and I think the MA2232 maximum displayed bandwidth is further restricted to around 8KHz, which hardly qualifies it as a "panadapter" in the wider sense I believe was intended when this thread started.

Adding a Softrock or similar to the IF output of a 6790 or 1792 is a great way of enjoying the enhanced demodulation and filtering offered by SDR software, but high grade commercial HF receivers such as these have restricted IF bandwidth by design, and for very good reason, so they're not generally going to be the ideal source for the wideband feed required by a spectrum display.

Theoretically at least it should be possible to take the tuning information from the remote output on a 1792 or 6790 and use this to tune the centre frequency of an SDR, so it wouldn't even need to be particularly fine tuning, and that could indeed make for a very nice linked display.
But where do you stop?
Taken to extremes you could end up with a high quality professional receiver just being used as a hardware tunable front end for an SDR, and might not that defeat the object a bit? :-)

Regards

Nigel
GM8PZR

In a message dated 13/01/2014 01:26:07 GMT Standard Time,
carcia@... writes:

Yup MA2232 I think it is. I have a new one with less than 10 hours on it. The LCD has a bit of a black blotch. Nice unit. sure wish I could find a new display. gfz

---
From: "g0nbd@..." <g0nbd@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, January 4, 2014 8:01 AM
Subject: [Racal6790GM] RE: Panadapter

I think there was a pan-adaptor add on for the 1792 , A look at the interface cct would give a indication as to how and where to connect up

The ra17 adaptor tuned the 2/3 MHz If , ie, the out put of the 1MHz block down converter , the adaptor was able to detect signals under the noise , by integration, the tube was blue first - yellow afterglow radar type

Using softrock at the 455k IF , its possible to out perform the ssb detector with software , but the dongle has a much higher noise floor , so it may not emulate the 'real thing'

Good Luck , what every you do , make sure you can un-do or the resale value takes a big hit in years to come !

G,

2365. Re: [Racal6790GM] RE: Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-13 11:03:42 UTC
From: casy_ch@tbwil.ch
Topic: 2344 Message: 2365

Hi Nigel

You are correct with the features of the MA2232 which can show the most 8KHz bandwidth. Not bad for rtty or sstv reception.

Racal had also a RA1766 <*/RF Signal Display Unit RA1766B/*> input of which can be switched either to 100KHz or 1.4MHz. I could not figure out any info about it until I opened it and saw that in fact Racal bought it from Eddystone (Eddystone 1061), had a Racal front panel printed and their own tag on the rear panel.

73 de Jean-Claude, HB3YDH

Am 13.01.2014 09:45, schrieb poldhu1901@...:
> The MA2232 is a nice unit but it's a tuning aid, and is quite clearly
> labelled as such, that takes its input from the IF output on the 1792.
> This is not just "splitting hairs", whilst the LCD display does give
> it a panadapter "look and feel" it's performance is still very much
> limited by the IF bandwidth of the receiver, and I think the MA2232
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> which hardly qualifies it as a "panadapter" in the wider sense I
> believe was intended when this thread started.
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> great way of enjoying the enhanced demodulation and filtering offered
> by SDR software, but high grade commercial HF receivers such as
> these have restricted IF bandwidth by design, and for very good
> reason, so they're not generally going to be the ideal source for the
> wideband feed required by a spectrum display.
> Theoretically at least it should be possible to take the tuning
> information from the remote output on a 1792 or 6790 and use this to
> tune the centre frequency of an SDR, so it wouldn't even need to be
> particularly fine tuning, and that could indeed make for a very nice
> linked display.
> But where do you stop?
> Taken to extremes you could end up with a high quality professional
> receiver just being used as a hardware tunable front end for an
> SDR, and might not that defeat the object a bit? :-)
> Regards
> Nigel
> GM8PZR
> In a message dated 13/01/2014 01:26:07 GMT Standard Time,
> carcia@... writes:
>
> Yup MA2232 I think it is. I have a new one with less than 10 hours
> on it. The LCD has a bit of a black blotch. Nice unit. sure wish I

> could find a new display. gfz
>
> ---
> *From:* "g0nbd@..." <g0nbd@...>
> *To:* Racal6790GM@yahoogroups.com
> *Sent:* Saturday, January 4, 2014 8:01 AM
> *Subject:* [Racal6790GM] RE: Panadapter
>
> I think there was a pan-adaptor add on for the 1792 , A look at
> the interface cct would give a indication as to how and
> where to connect up
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> The ra17 adaptor tuned the 2/3 MHz If , ie, the out put of
> the 1MHz block down converter , the adaptor was able to detect
> signals under the noise , by integration, the tube was blue
> first - yellow afterglow radar type
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> Using softrock at the 455k IF , its possible to out perform
> the ssb detector with software , but the dongle has a much
> higher noise floor , so it may not emulate the 'real thing'
>
> Good Luck , what every you do , make sure you can un-do or
> the resale value takes a big hit in years to come !
>
> G,
>

2366. Re: [Racal6790GM] Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-13 22:50:14 UTC
From: <vk2ccj@...>
Topic: 2358 Message: 2366

Thank you for the information will check it all out before I have to replace the board or have it fixed.

Best Regards,
Cliff

2367. Re: [Racal6790GM] RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-13 22:55:10 UTC
From: <vk2ccj@...>
Topic: 2358 Message: 2367

Thanks Dan,

No Battery seems fine haven't measured it yet but no leakage , this was refurbished by GW some time back so has the LED backlighting and so on.

That tantalum I am guessing is on the uP board, will check it out that would certainly stop it running.

I'll pull the uP board out and give it a good going over and see if anything obvious.

Appreciate everyones input thank you,

Cliff

2368. RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-13 23:14:29 UTC
From: <vk2ccj@...>
Topic: 2358 Message: 2368

HI Reece,

I intend to check everything , but it appears that indeed it is the uP board, thanks for letting me know about the alternate boards wasn't aware of them. Don't know how much not cheap I guess.

Cheers
Cliff

2369. RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-14 01:22:43 UTC
From: <reece_k1@...>
Topic: 2358 Message: 2369

Hi Cliff, I read somewhere they were around US$180, don't quote me on that, but certainly email them:
sales@a6a2.co.uk

2370. Re: [Racal6790GM] Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-14 01:33:33 UTC
From: <vk2ccj@...>
Topic: 2358 Message: 2370

Ok I have done the basic troubleshooting as Gary Wingerd suggested and still no front panel control, Only difference was I now have a '2' as the last digit on the Frequency the rest still '0'

I decided to check the Tantulums on the uP board and found c17 is measuring about 44 ohms still in circuit but sure seems low , the board is removed so nothing connected. Looks like that supplies the RAM with its VCC so maybe something there.

Have to go out but will check later,

Cliff

---In Racal6790GM@yahoogroups.com, <gewingerd@...> wrote:

Troubleshooting The RACAL RA6790/GM Receiver

Start with the basic Microprocessor, Front Panel and Power Supply check. Make sure that the power is turned off. Unplug the following connectors:

W21 First Mixer A2
W22 Second Mixer A3
W13 First LO Synthesizer A7
W14 Second LO/BFO Synthesizer A8
W15 Main IF/AF A4
Remove the A6A1 Remote Interface Card if installed.

This only leaves the Power Supply A10, the Front Panel A9 and the Microprocessor A6A2 Card.

Turn the power on and monitor the Front Panel Assembly, make sure the Remote is not on the Front Panel Mode LCD and press each of the membrane switches to ensure their function. If the Front Panel is operating correctly then you can start plugging in each of the cables disconnected one by one and turn the power back on after each connection is made and then retest the Front Panel again each time. If the receiver Front Panel stops working after you have plug in one of the boards and turned on the power then that board will have a power supply cap problem on that board. The bad caps are easy to locate because they will produce a large amount of heat and may have a small hole in the cap, if you inspect each cap with an eye loupe you may see a small pin hole in the device. They will also measure very low resistance to ground.

A10 Troubleshooting

Power Supply Terminal Normal Voltage Normal Resistance to Ground
E7 Regulated +20 Volt +20 V +/- .5 Volts 11.3 K Ohms
E6 Regulated +5 Volt +5.25 V +/- .5 Volts 196 Ohms
E2 +15 VUR 400 Ohms to 295 K Ohms
E5 +5 VUR 1.3 M Ohms

E3 Regulated +15 Volt +15 V +/- .5 Volts 96 Ohms
E4 GROUND 0 Ohms
E1 Regulated -15 Volt -15 V +/- .5 Volts 1920 Ohms

The ripple measurements for the regulated power supply outputs are less than 10 MV Peak to Peak.

Normal Ripple measurement at E7 4mv Peak to Peak
Normal Ripple measurement at E6 6mv Peak to Peak
Normal Ripple measurement at E3 4mv Peak to Peak
Normal Ripple measurement at E1 3mv Peak to Peak

Please note: message attached

From: <vk2ccj@...>
To: <Racal6790GM@yahoogroups.com>
Subject: [Racal6790GM] Racal 6790/GM Stopped working all 0's on display and no VFO control
Date: 12 Jan 2014 14:18:14 -0800

2371. Re: [Racal6790GM] RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-14 01:35:27 UTC
From: <vk2ccj@...>
Topic: 2358 Message: 2371

The reset on the uP is sitting at +5V which sounds right

2372. Fw: A6A2 pricing details for 2014

Yahoo group: Racal6790GM
Date: 2014-01-14 10:15:46 UTC
From: gewingerd@netzero.net
Topic: 2372 Message: 2372
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2373. Re: [Racal6790GM] RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-14 12:09:33 UTC
From: <vk2ccj@...>
Topic: 2358 Message: 2373

A little more I found that C17 is ok. but I have 44ohms from the Microprocessor Reset Pin to ground ?

The only components I can see associated with this RESET is C17 and Q7 .

So if I remove Q7 there should be an open circuit from reset pin to ground or at least a high resistance.

Am i on the right track ? This is all measured with the board removed.

Thanks agin
Cliff

2374. Re: [Racal6790GM] RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-14 14:50:35 UTC
From: Dan Rae
Topic: 2358 Message: 2374

On 1/14/2014 4:09 AM, vk2ccj@... wrote:
>
>
> A little more I found that C17 is ok. but I have 44ohms from the
> Microprocessor Reset Pin to ground ?
>
>
> The only components I can see associated with this RESET is C17 and Q7 .
>
>
And the CPU itself...

Cliff, I thought you'd previously established that you had a good High 5V signal on the Not reset pin. If this is the case then Q7 is presumably fine (as is C17. When a tant dies it will read pretty much zero ohms).

Next thing I would do would be to check if there is a 2 MHz signal on the CPU oscillator pins. I am assuming you have an oscilloscope there... Then check for Bus activity. From here on it gets tricky since the most likely suspect will be the CPU itself, and without sockets for substitution it is difficult to check. I have seen one dead crystal but it is not common.

Far the most common problems on the A6A2 boards are caused by battery leakage damage, and not knowing the history of your board I can't even guess about that but VIAs can and do go open years after the leakage has happened. Thorough testing with a continuity tester of all the address and data bus lines and interconnections up to the 34 way connector doesn't actually take that long... I take a clean copy of the schematic and check off each connection as I go.

Good luck!

Dan

2375. Re: [Racal6790GM] RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-14 22:14:52 UTC
From: <vk2ccj@...>
Topic: 2358 Message: 2375

Thanks Dan,

Board is clean no Battery damage evident and battery measures good voltage.

There is 5V on the reset pin 37 of the micro.

I do have an old basic Scope will take a look today at the oscillator.

Cheers
Cliff

2376. Re: [Racal6790GM] RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-15 01:58:09 UTC
From: <vk2ccj@...>
Topic: 2358 Message: 2376

Hi Dan,

Teach me to troubleshoot when I am tired, I was measuring the wrong chip, With a fresh start the reset is close to 0V at Pin37 of the micro, So if I am right it should be at 5V so it is constantly being reset now.

The two gets look the same I removed and checked them and as I said C17 is high resistance as it should be.

Could I artificially introduce my own reset say via a resistor and a switch to 5V VCC.?

I remember doing similar with Z80 based stuff to force a reset.

The 2Mhz looks good.

Sorry I gave you the wrong info there.

Might try and pull the reset high through a resistor and see what happens.

Thanks Cliff

2377. Re: [Racal6790GM] RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-15 02:54:52 UTC
From: <vk2ccj@...>
Topic: 2358 Message: 2377

Well I forced the reset high through a resistor and it went straight to REMOTE still no panel control/vfo but there is buss activity now where when low there is none as expected

Ideas ?

2378. Re: [Racal6790GM] RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-15 03:36:49 UTC
From: Dan Rae
Topic: 2358 Message: 2378

On 1/14/2014 5:58 PM, vk2ccj@... wrote:
>
>
> Hi Dan,
>
>
> Teach me to troubleshoot when I am tired, I was measuring the wrong
> chip, With a fresh start the reset is close to 0V at Pin37 of the
> micro, So if I am right it should be at 5V so it is constantly being
> reset now.
>
>
> The two gets look the same I removed and checked them and as I said
> C17 is high resistance as it should be.
>
> Could I artificially introduce my own reset say via a resistor and a
> switch to 5V VCC.?
>
Cliff, that probably won't work. There must be an internal pull up in the cpu on that pin. In any case there is a reset line that is driven by the other FET that enables the RAMs and I suspect that is also being held down by whatever is holding down the other line.

I've pulled a working GM out of the garage and I will spend some time tomorrow morning measuring some Voltages in that area, but can't do it tonight, I'm a bit short of space at the moment, working on a spectrum analyser...

73 - Dan

2379. Re: [Racal6790GM] RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-15 14:39:01 UTC
From: Dan Rae
Topic: 2358 Message: 2379

Hi Cliff,

From what you described the symptoms are entirely consistent with the A6A2 on board +12V supply being dead. When you said that you checked the supplies did you include this one?

There is a little 12V regulator on the board that not only supplies the cpu and smi ICs but also the reset circuitry, and it had a tantalum on the output side. If this tantalum is shorted the regulator will current limit into it at 100 mA but essentially zero Voltage.

Check that first; I'm betting that will be your problem.

73 - Dan

2380. RA 1792 MEMORY FAULT

Yahoo group: Racal6790GM
Date: 2014-01-15 18:37:45 UTC
From: BW PITMAN
Topic: 2380 Message: 2380

My RA 1792 memory has stopped working, symptoms are as follows :-

Receiver works fine if I select a single frequency by using the press buttons.

When I store the frequency using the store and enter buttons the receiver still goes on working and displays the selected channel number, however the moment I rotate the main knob to review other storage allocations the frequency display changes to OAOAOAOA.

At this point the receiver stops working and although the memory numerals are all still present and I can rotate through all 0 to 99 allocations the OAOAOAOA display remains and the receiver remains silent.

If I switch off and re-enter a new frequency the fault re-occurs.

All ideas welcome

Regards
Bryan

2381. Re: [Racal6790GM] RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-15 20:23:40 UTC
From: <vk2ccj@...>
Topic: 2358 Message: 2381

Hi Dan,

I feel a little stupid, I was sure I checked the supplies and disconnected the modules as GW suggested but didn't disconnect the two small plugs inside the mixers. .

After running around trying to fix the uP board there was no fault, Turned out the -15V was being loaded down by a shorted Tantalum in the A2 mixer module.

Replaced and all is well , just shows should check and recheck the basics.

So my apologies if I sent you off on a wild goose chase,

At least it was a cheap fix.

Many thanks to all that helped, my troubleshooting is somewhat rusty,

Best Regards,
73
Cliff

2382. Re: [Racal6790GM] RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-15 20:41:38 UTC
From: Tom Frobase
Topic: 2358 Message: 2382

OK I waited patiently while you worked through that process, other than the problem with the battery leaking and the first mixer transistors failing that is by far the most common problem with the 6790. Sometimes the series inductors burn out when the tantalum shorts as well.

Great lesson learned 73, tom, N3LLL

On Wed, Jan 15, 2014 at 2:23 PM, <vk2ccj@...> wrote:

>
>
> Hi Dan,
>
>
> I feel a little stupid, I was sure I checked the supplies and disconnected
> the modules as GW suggested but didn't disconnect the two small plugs
> inside the mixers. .
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>
> Best Regards,
>
> 73
>
> Cliff
>
>
>

2383. Re: [Racal6790GM] RE: Racal 6790/GM Stopped working all 0's on display and no VFO control

Yahoo group: Racal6790GM
Date: 2014-01-16 01:23:30 UTC
From: <vk2ccj@...>
Topic: 2358 Message: 2383

Thanks Tom , as I said my days of real troubleshooting are years ago .

Keep it simple yes Lesson learned,

thanks all
Cliff vk2ccj

2384. Microprocessor & 2 x ROMs

Yahoo group: Racal6790GM
Date: 2014-01-20 06:54:47 UTC
From: <bl_6000@...>
Topic: 2384 Message: 2384

Looking for a microprocessor & the 2 x ROMs for a restoration.
Brad

2385. Re: [Racal6790GM] Microprocessor & 2 x ROMs

Yahoo group: Racal6790GM
Date: 2014-01-20 17:01:39 UTC
From: gewingerd@netzero.net
Topic: 2384 Message: 2385
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2386. Re: [Racal6790GM] Microprocessor & 2 x ROMs

Yahoo group: Racal6790GM
Date: 2014-01-20 19:51:16 UTC
From: Dan Rae
Topic: 2384 Message: 2386

On 1/19/2014 10:54 PM, bl_6000@... wrote:
>
>
> Looking for a microprocessor & the 2 x ROMs for a restoration.
> Brad
>
>
You're going to have to be a bit more specific Brad. The Z80 board can
have one or two eproms, and the older F8 board has three eproms, and
there are several different firmware versions around. There's a company
in the UK that sells the boards.

dr

2387. Re: [Racal6790GM] RE: Panadapter

Yahoo group: Racal6790GM
Date: 2014-01-13 01:45:50 UTC
From: FRANCIS CARCIA
Topic: 2344 Message: 2387

I have not found any usable displays and would not consider hacking it. A very nice unit to hang off a 455 KHz IF as a tuning aide. gfz

---

From: FRANCIS CARCIA <carcia@...t>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, January 4, 2014 12:39 PM
Subject: Re: [Racal6790GM] RE: Panadapter

Yup MA2232 I think it is. I have a new one with less than 10 hours on it. The LCD has a bit of a black blotch. Nice unit. sure wish I could find a new display. gfz

---

From: "g0nbd@..." <g0nbd@...>
To: Racal6790GM@yahoogroups.com
Sent: Saturday, January 4, 2014 8:01 AM
Subject: [Racal6790GM] RE: Panadapter

I think there was a pan-adaptor add on for the 1792 , A look at the interface cct would give a indication as to how and where to connect up

The ra17 adaptor tuned the 2/3 MHz If , ie, the out put of the 1MHz block down converter , the adaptor was able to detect signals under the noise , by integration, the tube was blue first - yellow afterglow radar type

Using softrock at the 455k IF , its possible to out perform the ssb detector with software , but the dongle has a much higher noise floor , so it may not emulate the 'real thing'

Good Luck , what every you do , make sure you can un-do or the resale value takes a big hit in years to come !

G,

2388. Re: [Racal6790GM] Microprocessor & 2 x ROMs

Yahoo group: Racal6790GM
Date: 2014-01-25 09:19:02 UTC
From: Brad Latta
Topic: 2384 Message: 2388
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Dan,
I have sent photos of the board,
Regards, Brad

On Tuesday, 21 January 2014 6:51 AM, Dan Rae <danrae@...> wrote:

On 1/19/2014 10:54 PM, bl_6000@... wrote:

>
>Looking for a microprocessor & the 2 x ROMs for a restoration.
>

Brad
>
>
>
You're going to have to be a bit more specific Brad. The Z80 board can have one or two eproms, and the older F8 board has three eproms, and there are several different firmware versions around. There's a company in the UK that sells the boards.

dr

2389. Re: [Racal6790GM] Microprocessor & 2 x ROMs [2 Attachments]

Yahoo group: Racal6790GM
Date: 2014-01-25 17:18:23 UTC
From: Dan Rae
Topic: 2384 Message: 2389

On 1/25/2014 1:19 AM, Brad Latta wrote:
> [Attachment(s) from Brad Latta included below]
>
> Hi Dan,
> I have sent photos of the board,
> Regards, Brad
>
That's the original F8 board, and you will need three (3) Eproms (2716 programmed). There are several versions of the program around, the A09666 for example is the one with the regular tuning steps and tuning down below 500 kHz. There are others with more ham friendly tuning steps: 1, 10 and 100 Hz.

The microprocessor in yours is the 3850. These are long obsolete and I've no idea where you'd find one. Perhaps the guy in the UK sells them. But how do you know yours is dead without the eproms on the board?

73 - Dan

2390. Low Sensitivity Bite 15 Failure

Yahoo group: Racal6790GM
Date: 2014-02-14 04:03:22 UTC
From: Barry Williams
Topic: 2390 Message: 2390

Hello,

I just returned to the RA6790 owners club. My "new" 6790 has very low sensitivity and the Bite returns error 15. Indicating no filters or synthesizer signal is out of range. If I operate the receiver, everything works properly, and it shows.1 kHz, .4, kHz, 3.3 Khz , 6.8 KHz and 16 KHz filters installed. Is there a 100 Hertz filter as shown in BW1? Is there a common fault with these symptoms?

Thank you,
Barry

2391. Low Sensitivity 6790

Yahoo group: Racal6790GM
Date: 2014-02-14 07:17:53 UTC
From: Barry Williams
Topic: 2391 Message: 2391

I opened the filter cover and there are 7 filters installed. Three blue Collins filters in the first three slots, and four large rectangular filters marked 125 Hertz, 400 Hertz, 3.4 KHz, 6.8 KHz, and 16 Khz. All appear to be working. Putting the AGC in Manual, I can get full meter deflection by turning IF gain counterclockwise.

Thanks Again,
Barry

2392. Re: [Racal6790GM] Low Sensitivity Bite 15 Failure

Yahoo group: Racal6790GM
Date: 2014-02-14 22:47:36 UTC
From: gewingerd@netzero.net
Topic: 2390 Message: 2392
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2393. Re: [Racal6790GM] Low Sensitivity Bite 15 Failure

Yahoo group: Racal6790GM
Date: 2014-02-16 01:42:46 UTC
From: Barry Williams
Topic: 2390 Message: 2393

Gary,

Thank you for the comprehensive information. The former owner talked to you then replaced an IC. I will double check his work and go through your list. When BITE stops, it shows only 15. Is there something I need to do to run additional testing to show additional failures?

It correctly shows the actual bandwidth of all filters, and it properly selects them. It does not show an error during operation, and everything works fine, just not sensitive. A strong local AM station can be heard on a 20 foot wire. Audio gain is fine.

73,
Barry

2394. Re: [Racal6790GM] Low Sensitivity Bite 15 Failure

Yahoo group: Racal6790GM
Date: 2014-02-16 15:09:55 UTC
From: gewingerd@netzero.com
Topic: 2390 Message: 2394
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2395. Main tuning encoder

Yahoo group: Racal6790GM
Date: 2014-02-23 22:46:49 UTC
From: Don Peterkin
Topic: 2395 Message: 2395

Hello everyone.

I☐m a new member, with a (new to me) RA6790/GM

It☐s got a few ☐issues☐, which I☐m working through. Mostly electrical, but this one☐s mechanical:

The main tuning knob has about ¼ ☐ in and out free movement, which I☐m sure cannot be correct.

When the knob is pulled, the disc on the inside hits the sensors, and when it☐s pushed all the way in, the knob rubs on the front panel!

Can anyone please tell me what the correct distance between the disc and the sensors should be, please?

-Don Peterkin; VK5DON.

2396. RE: Main tuning encoder

Yahoo group: Racal6790GM
Date: 2014-02-25 00:16:53 UTC
From: <reece_k1@...>
Topic: 2395 Message: 2396

Seems that the washers are missing, there are 2 flat washers (one each end) and a very thin spring washer at the outer part, (disc end) rear that takes up the slack, mine has virtually no slack except for the spring, about 1mm.

2397. [Racal6790GM] RE: Main tuning encoder

Yahoo group: Racal6790GM
Date: 2014-02-25 00:53:23 UTC
From: Don Peterkin
Topic: 2395 Message: 2397

Thanks for that, Reece.

My radio does have the two flat washers, and the fine spring washer you speak of. The disc had a pronounced ☐Woof☐☐ in it, which I☐ve managed to almost take out, and have the disc run fairly true. It misses the encoder now, but there is still a lot of backwards and forwards motion in the shaft, close to 6mm/ ¼ ☐. It still must be missing something, compared with yours with only about 1mm of lost motio. I☐m wondering how critical the distance between the disc and the encoder is. If it☐s not critical, then I guess it would work. I☐m not able to try the tuning at present, as I☐m not yet in a position to power the receiver up.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of reece_k1@...
Sent: Tuesday, 25 February 2014 10:47 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] RE: Main tuning encoder

Seems that the washers are missing, there are 2 flat washers (one each end) and a very thin spring washer at the outer part, (disc end) rear that takes up the slack, mine has virtually no slack except for the spring, about 1mm.

2398. RE: Main tuning encoder

Yahoo group: Racal6790GM
Date: 2014-03-09 04:22:18 UTC
From: <reece_k1@...>
Topic: 2395 Message: 2398

Hi Don, I don't know if these pics will help:
http://i66.photobucket.com/albums/h244/Reecehk/6790rotor-4_zps4c060d8d.jpg
http://i66.photobucket.com/albums/h244/Reecehk/6790rotor-4_zps4c060d8d.jpg
http://i66.photobucket.com/albums/h244/Reecehk/6790rotor-3_zps6c5db369.jpg
http://i66.photobucket.com/albums/h244/Reecehk/6790rotor-3_zps6c5db369.jpg
http://i66.photobucket.com/albums/h244/Reecehk/6790rotor-2_zps3274eafd.jpg
http://i66.photobucket.com/albums/h244/Reecehk/6790rotor-2_zps3274eafd.jpg
http://i66.photobucket.com/albums/h244/Reecehk/6790rotor-1_zpsbfcab5c1.jpg
http://i66.photobucket.com/albums/h244/Reecehk/6790rotor-1_zpsbfcab5c1.jpg
I notice from your call sign you live in SA, I live near Burra!!
Cheers,
Reece.

2399. RA6790-12

Yahoo group: Racal6790GM
Date: 2014-03-10 18:06:49 UTC
From: <sir.hugo.atl.ga@...>
Topic: 2399 Message: 2399
Attachments: 2 described; binary payloads are missing from this source WARC

I went to a Hamfest and picked up what I thought was a
RA6790/GM.

When I opened the unit I discovered its NOT A RA6790/GM

but a RA6790-12 Serial # 226

Anyone have any information on this unit. I've got a Harris RF550 I love!!!
I always wanted a Racal!!

This unit has 6 mechanical Collins filters that are baby blue!!

(Pics attached)
Hugo

2400. Re: [Racal6790GM] RA6790-12 [2 Attachments]

Yahoo group: Racal6790GM
Date: 2014-03-11 11:57:02 UTC
From: wa9dgm@...
Topic: 2399 Message: 2400

Does it have a rf amp ? Need more pics to figure out ! AT&T used these on overseas ckts some time ago, and had rf amps . 73 John

On Mar 10, 2014, at 11:06, <sir.hugo.atl.ga@...> wrote:

> [Attachment(s) from sir.hugo.atl.ga@... included below]
> I went to a Hamfest and picked up what I thought was a
> RA6790/GM.
>
> When I opened the unit I discovered its NOT A RA6790/GM
>
> but a RA6790-12 Serial # 226
>
> Anyone have any information on this unit. I've got a Harris RF550 I love!!!
> I always wanted a Racal!!
>
> This unit has 6 mechanical Collins filters that are baby blue!!
>
> (Pics attached)
> Hugo
>
>

2401. Re: [Racal6790GM] RA6790-12 [2 Attachments]

Yahoo group: Racal6790GM
Date: 2014-03-11 12:36:00 UTC
From: Tom B
Topic: 2399 Message: 2401

Hi Hugo,

I have the manual. What do you want to know?

Nothing with this receiver is interchangeable with the 6790/GM. The 6790 is not very common. Most people have never heard of it. It does not have BITE so don't expect that to work.

Tom Bryan
N3AJA

> I went to a Hamfest and picked up what I thought was a
> RA6790/GM.
>
> When I opened the unit I discovered its NOT A RA6790/GM
>
> but a RA6790-12 Serial # 226
>

2402. RE: [Racal6790GM] RA6790-12

Yahoo group: Racal6790GM
Date: 2014-03-12 20:16:09 UTC
From: KR4HV
Topic: 2399 Message: 2402

Hugo, I have one too, s/n 16/1307 . You won't like it. I'll give you $50.00 for it ☺

Seriously, it will work fine if in good repair.

The upper and lower SSB filters (they usually have both) have different bandwidths. Mine has the preamp also.

I have to replace the LCD readouts.

If it's not working, repair it and enjoy!!

Regards,

Walt

KR4HV

"There is no excuse for doing a job poorly. Just do it right. If you don't know how, engage someone that does" WM

"It is now more difficult to obtain a driver's license in most states than to obtain an Amateur Radio license. Citizen’s Band déjà vu."WM

"Why would one celebrate an eight year old obtaining an Amateur Extra Class license? Isn’t it very demeaning to that license class, the examination, the entire licensing process and Amateur Radio? Think about it."WM

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of wa9dgm@...
Sent: Tuesday, March 11, 2014 7:57 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] RA6790-12

Does it have a rf amp ? Need more pics to figure out ! AT&T used these on overseas ckts some time ago, and had rf amps . 73 John

On Mar 10, 2014, at 11:06, <sir.hugo.atl.ga@...> wrote:

I went to a Hamfest and picked up what I thought was a
RA6790/GM.

When I opened the unit I discovered its NOT A RA6790/GM

but a RA6790-12 Serial # 226

Anyone have any information on this unit. I've got a Harris RF550 I love!!!
I always wanted a Racal!!

This unit has 6 mechanical Collins filters that are baby blue!!

(Pics attached)
Hugo

2403. Re: (1)

Yahoo group: Racal6790GM
Date: 2014-03-16 12:56:27 UTC
From: shelly199@...
Topic: 2403 Message: 2403

Hey there! http://happy-and.pl/-startler.facebook.com_?fizytihy923167

2404. LF/1-10-100 Hex Files

Yahoo group: Racal6790GM
Date: 2014-03-20 00:42:46 UTC
From: <jeffhook@...>
Topic: 2404 Message: 2404

Hi,
I have a "new to me" RA6790/GM that I have been playing with.
Is their anyone who could email me the files to burn some new LF/1-10-100 eproms?
I don't see any in the files section.
Thanks - Jeff

2405. RE: [Racal6790GM] RA6790-12

Yahoo group: Racal6790GM
Date: 2014-03-12 17:22:18 UTC
From: Hugo
Topic: 2399 Message: 2405

Tom,

Do you have the RA6790 (plain) manual in digital form?

And, do you have the RA6790/GM manual as well??

Do you know if I part out the LCD displays and the filters if

They are the same as used in a RA6790/GM??

Any idea of "how good" a PLAIN RA6790-12 is compared to

A typical receiver??

I am sitting here wanting a RACAL!! Have $300 invested and

Don't know whether to cut my loses or maybe try to get the receiver

To work and be "semi" happy with the investment I made.

Hugo

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Tom B
Sent: Tuesday, March 11, 2014 8:36 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] RA6790-12

Hi Hugo,

I have the manual. What do you want to know?

Nothing with this receiver is interchangeable with the 6790/GM. The 6790 is not very common. Most people have never heard of it. It does not have BITE so don't expect that to work.

Tom Bryan
N3AJA

> I went to a Hamfest and picked up what I thought was a
> RA6790/GM.
>
> When I opened the unit I discovered its NOT A RA6790/GM
>
> but a RA6790-12 Serial # 226
>

2406. Replacing battery in RACAL 6790GM

Yahoo group: Racal6790GM
Date: 2014-03-27 21:53:26 UTC
From: <jgalante2000@...>
Topic: 2406 Message: 2406

I just purchased a replacement battery for my RACAL 6790, does anyone have a detailed procedure for replacing the battery?

2407. Re: [Racal6790GM] Replacing battery in RACAL 6790GM

Yahoo group: Racal6790GM
Date: 2014-03-28 09:15:07 UTC
From: gewingerd@netzero.com
Topic: 2406 Message: 2407
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2408. Re: [Racal6790GM] Replacing battery in RACAL 6790GM

Yahoo group: Racal6790GM
Date: 2014-03-28 11:46:34 UTC
From: Joe Galante
Topic: 2406 Message: 2408

Gary,

Thanks for the very helpful information, just another question, how do you remove ribbon cable, is it like a computer cable or is there some special release on it?

On Friday, March 28, 2014 5:17 AM, "gewingerd@netzero.com" <gewingerd@...> wrote:

Remove the card install new battery, re-install card, turn receiver on , make sure to press the REMOTE button until you are in local, dial in a know frequency, mode, cw bfo setting, turn receiver off then back on, work the dial, then run BITE (LOCK & AM button at same time). When it has finished BITE it should be ready to go.
Thanks,
Gary

---------- Original Message ----------
From: <jgalante2000@yahoo.com>
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Replacing battery in RACAL 6790GM
Date: 27 Mar 2014 14:53:26 -0700

I just purchased a replacement battery for my RACAL 6790, does anyone have a detailed procedure for replacing the battery?

2409. Re: [Racal6790GM] Replacing battery in RACAL 6790GM

Yahoo group: Racal6790GM
Date: 2014-03-28 16:04:17 UTC
From: gewingerd@netzero.com
Topic: 2406 Message: 2409
Attachments: 5 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2410. Re: [Racal6790GM] Replacing battery in RACAL 6790GM

Yahoo group: Racal6790GM
Date: 2014-03-28 16:05:53 UTC
From: gewingerd@netzero.com
Topic: 2406 Message: 2410
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2411. RACAL 6790 display all 0's and radio locked up

Yahoo group: Racal6790GM
Date: 2014-04-06 14:37:50 UTC
From: <jgalante2000@...>
Topic: 2411 Message: 2411

I just purchased a RACAL 6790, while it works, after a while of listening it will lock up and when you power down and power back up, the display will display various numbers, sometimes, all 0's, sometimes looks like a combination of A's and 5's. Has anyone else experienced this and probable solution?

2412. Re: [Racal6790GM] RACAL 6790 display all 0's and radio locked up

Yahoo group: Racal6790GM
Date: 2014-04-07 10:51:56 UTC
From: casy_ch@tbwil.ch
Topic: 2411 Message: 2412

That seems to me to be an empty RAM memory backup battery. Should it
still be "viable" let the rx turned on for at least 24 hours or longer.
Then switch the rx off for a fews seconds and on and look what happens
until the test runs to its end.
If it still does the same, then run the BITE TEST.
(Entering the BITE TEST = press together LOCK and AM)
(Getting out of the BITE = press together LOCK and CW)

If that is ok and when switching the rx the next time on it does the
same, then the backup battery should be replaced.

Jean-Claude

Am 06.04.2014 16:37, schrieb jgalante2000@...:
>
> I just purchased a RACAL 6790, while it works, after a while of
> listening it will lock up and when you power down and power back up,
> the display will display various numbers, sometimes, all 0's,
> sometimes looks like a combination of A's and 5's. Has anyone else
> experienced this and probable solution?
>
>
>
>

2413. News

Yahoo group: Racal6790GM
Date: 2014-04-16 10:39:57 UTC
From: oscar873@aol.com
Topic: 2413 Message: 2413

Hi! News: http://betonamprentatromania.ro/esu/view.php

oscar873@...

2414. Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-04-16 18:10:01 UTC
From: Leigh Sedgwick
Topic: 2414 Message: 2414

I have a very nice RA6790GM, serial number 93XX, with ISB module and all filters installed. The receiver has been working fine for years but has developed a problem.

1. All front panel controls appear to work fine.

2. Frequency readout is very accurate.

3. The receiver still receives signals although sensitivity is down.

4. While in CW and AM modes, filters can be selected but have no effect (that is the bandwidth does not change) and AM signals sound distorted.

5. Bite errors 15, 16, 11, 8, and 12 show from bite test.

Detailed pictures of the receiver showing all modules can be seen at

http://home.comcast.net/~bipi/racal.html

Any suggestions where to start troubleshooting would be appreciated? Thanks for your time.

Mike

K7PI

2415. Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-04-17 20:57:26 UTC
From: <bipi@...>
Topic: 2414 Message: 2415

Well, I've track through the signal path and both the A2 and A3 cards are working properly. The 455 kHz signal comes into the A4 card OK and appears to pass through the 16 kHz filter, regardless of the filter selected on the front panel. One more sympton, the IF gain control does not adjust gain with the radio switched to manual and there is no S-meter of AF meter indicatioin for any signal input. So, I will continue to look at the A4 card as that appears where this problem lies.

Thanks

Mike
K7PI

2416. Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-04-17 01:07:39 UTC
From: <bipi@...>
Topic: 2414 Message: 2416

Looking through the Bite error codes it would seem the problem is in the A2 card. I'll check that out first.

Thanks All

Mike
K7PI

2417. Fw:

Yahoo group: Racal6790GM
Date: 2014-04-18 02:06:31 UTC
From: oscar873@aol.com
Topic: 2417 Message: 2417

Hi!

News: http://autos3demayo.com/bm/page.php

oscar873@...

2418. Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-04-23 01:35:49 UTC
From: <bipi@...>
Topic: 2414 Message: 2418

So I purchased an A4 card, modified the jumpers for ISB, installed it and all is fixed. Now, to go through the IC's on the old A4 card and see if I can find the bad one.

BTW, does anyone even read this list anymore?

Happy Trails

Mike
K7PI

2419. Re: [Racal6790GM] Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-04-23 11:04:48 UTC
From: Tom
Topic: 2414 Message: 2419

Yes we do.

Tom
W1ALZ

On 4/22/2014 9:35 PM, bipi@... wrote:
>
>
> BTW, does anyone even read this list anymore?
>
> Happy Trails
>
> Mike
> K7PI
>
>

2420. Re: [Racal6790GM] Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-04-23 11:22:25 UTC
From: David Stinson
Topic: 2414 Message: 2420

>> BTW, does anyone even read this list anymore?

Yep!
The help from these fine folks got my 6790
singing again.

73 Dave AB5S

2421. Re: [Racal6790GM] Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-04-23 18:41:47 UTC
From: gewingerd@netzero.com
Topic: 2414 Message: 2421
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2422. Racal 6790 for sale

Yahoo group: Racal6790GM
Date: 2014-04-29 19:57:41 UTC
From: <K5wor@...>
Topic: 2079 Message: 2422

A friend passed away few months back and as part of his radio gear was a Racal RA6790 SN 10066. This is about as clean a Racal as I have seen and I would rate it overall at least a 9 of 10. Only has one small scratch above the left display. It is very well equipped with 3.2, 1.2 ,6.0 Khz filters as well a 400Hz narrow filter. A capacitor is use in position 5 to make use of the 16Khz filters on the A2 and A3 boards. The receiver functions work as it should covers the full range of from 20Khz (0.0) to 29.99999 Mhz and could have the VLF A2 module. However I am not sure what that part number is, this one is 08966-3 Rev D and maybe someone can say. The receiver also has the remote control board and cable to a DB9 and is wired for 9600 baud and receiver number 1. I have tested the remote and it works with W6GER ver 2.1 software as well as other remote software. The only modification, is the battery on the A6 board which has been replaced with a connector and a battery place off the board (I think a good thing). All displays are bright and clear and the keypads show no wear. The receiver passes BITE however the approved method is used to set the filter bandwidth as the bite does not select the 6 and 16Khz correctly. I will pack and ship the receiver however the cost of shipping is yours. Many photos are available if you are interested as well as questions. The Racal is supplied with remote cable, DB25 audio connector, SO239 to N connector and power cord. Asking $850.00

2423. RE: [Racal6790GM] Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-04-23 19:52:17 UTC
From: tony dinkel
Topic: 2414 Message: 2423

Same here, I have bias problems that I need to address so I will be searching the archives because I know Gary has covered it in the past.

td

> From: arc5@...
> To: Racal6790GM@yahoogroups.com
> Date: Wed, 23 Apr 2014 06:22:25 -0500
> Subject: Re: [Racal6790GM] Re: Help Suggestions?

>
> >> BTW, does anyone even read this list anymore?
>
> Yep!
> The help from these fine folks got my 6790
> singing again.
>
> 73 Dave AB5S
>
>
>
> ------------------------------------
>
> Yahoo Groups Links
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2424. RE: [Racal6790GM] Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-04-23 14:13:26 UTC
From: Ron Ward
Topic: 2414 Message: 2424

Ron

N6IDL

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of bipi@...
Sent: Tuesday, April 22, 2014 6:36 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Help Suggestions?

So I purchased an A4 card, modified the jumpers for ISB, installed it and all is fixed. Now, to go through the IC's on the old A4 card and see if I can find the bad one.

BTW, does anyone even read this list anymore?

Happy Trails

Mike
K7PI

2425. Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-05-01 20:59:37 UTC
From: <toptyp19@...>
Topic: 2414 Message: 2425

Nope.

Nothing has EVER gone wrong with my 6790 so I have no
reason to read this ho-hum list. HI !!!

Joe-WA9LAE

2426. RE: [Racal6790GM] Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-04-30 11:43:20 UTC
From: Don Peterkin
Topic: 2414 Message: 2426

Must be a North American expression; what does 'BTW' mean, please? (Back To Work???)

Don VK5DON

_____

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of Ron Ward
Sent: Wednesday, April 23, 2014 11:43 PM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] Re: Help Suggestions?

Ron

N6IDL

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of bipi@...
Sent: Tuesday, April 22, 2014 6:36 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Re: Help Suggestions?

So I purchased an A4 card, modified the jumpers for ISB, installed it and all is fixed. Now, to go through the IC's on the old A4 card and see if I can find the bad one.

BTW, does anyone even read this list anymore?

Happy Trails

Mike
K7PI

2427. Re: [Racal6790GM] Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-04-30 12:19:09 UTC
From: David Stinson
Topic: 2414 Message: 2427

> BTW, does anyone even read this list anymore?

I do. Brought my 6790 back from the dead.

73 Dave AB5S

2428. Re: [Racal6790GM] Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-05-02 13:32:10 UTC
From: David Stinson
Topic: 2414 Message: 2428

----- Original Message -----
From: "Don Peterkin" <vk5don@...>

> Must be a North American expression; what does 'BTW' mean,
> please? (Back To
> Work???)

"By the way,"
roughly meaning:
"You might want to consider this additional,
related information or question."

2429. RE: [Racal6790GM] Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-05-02 15:30:43 UTC
From: James Campbell
Topic: 2414 Message: 2429

Apart from one occasion when it failed its BITE and then just recovered, mine hasn't gone wrong YET. but I read the list regularly as it is a mine of information.

James (in the UK, where 6790's are quite rare)

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com] On Behalf Of David Stinson
Sent: 30 April 2014 13:19
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Re: Help Suggestions?

> BTW, does anyone even read this list anymore?

I do. Brought my 6790 back from the dead.

73 Dave AB5S

2430. Re: [Racal6790GM] Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-05-02 16:10:38 UTC
From: Dan Rae
Topic: 2414 Message: 2430

> > BTW, does anyone even read this list anymore?
>
BTW, I think the original poster was asking that because nobody at that point had given him an answer to his problem. I have helped a few folk in the past to get to specific component level diagnoses on this list but it isn't easy. One needs to know first of all both what test gear they have available and their level of technical skill. Just posting something like: "My GM fails X,Y, and Z BITE tests" isn't going to be a lot of use for getting to component level. From what I recall this thread started off with the Poster thinking it was the A2 module and then progressed to saying it was the A4 module, and that IF filter selection was not working, nor was the RF gain control. This still sounds like at least two faults to me. The thread never got to the point where one might have been able to hazard a guess as to the specific area or areas to look at.

Fault finding to component level, rather than to assembly level which is all that BITE is useful for really, should always start with checking the supply Voltages. Gary's excellent list of the faults he has found over the years which is an excellent resource would I imagine start there as well.

Tracking down the common tantalum shorts, in my limited experience the most common failure in radios that have been off for a while and then powered up, is relatively easy by a process of elimination, unplugging boards in turn, then a combination of looking for vanished tants or the short circuit they can cause if not burnt up. Mind you the one in the power supply on the 20V regulator can destroy both the PC board itself and the transistor. Obvious by the evil smell :^(

So. Back to lurking.

73 - Dan

ac6ao / g3ncr

2431. Re: [Racal6790GM] Re: Help Suggestions?

Yahoo group: Racal6790GM
Date: 2014-05-02 23:10:53 UTC
From: Leigh
Topic: 2414 Message: 2431

Hi Dan,

Yes, you are spot on...I was just a bit surprised by the lack of response, and that's OK. I was just curious if folks were still active on here.

I've got to say, trouble shooting to the board level in the 6790 is very easy. I love all the test points that are installed on each of the boards. I have a very good scope and spectrum analyzer so following through the RF path until the signal failed to be in the proper state was straight forward. My A4 board was at fault. Voltages all looked good and inspection of the tantalum caps did not reveal any issues. I purchased another A4 board, modified the jumpers for ISB, and installed it and the receiver came right back to life. So now, I need to see if I can find the faulty component(s) on the old A4 board.

In any case, I appreciate the help I receive from this group, including Gary who is a tremendous resource to us all. I really enjoy my RA6790GM (I kept it over several other Mil-Spec radios).

Happy Trails

Mike
K7PI

----- Original Message -----
From: "Dan Rae" <danrae@...>
To: <Racal6790GM@yahoogroups.com>
Sent: Friday, May 02, 2014 9:10 AM
Subject: Re: [Racal6790GM] Re: Help Suggestions?

>
>> > BTW, does anyone even read this list anymore?
>>
> BTW, I think the original poster was asking that because nobody at that
> point had given him an answer to his problem. I have helped a few folk
> in the past to get to specific component level diagnoses on this list
> but it isn't easy. One needs to know first of all both what test gear
> they have available and their level of technical skill. Just posting
> something like: "My GM fails X,Y, and Z BITE tests" isn't going to be a
> lot of use for getting to component level. From what I recall this
> thread started off with the Poster thinking it was the A2 module and
> then progressed to saying it was the A4 module, and that IF filter
> selection was not working, nor was the RF gain control. This still
> sounds like at least two faults to me. The thread never got to the
> point where one might have been able to hazard a guess as to the
> specific area or areas to look at.
>

> Fault finding to component level, rather than to assembly level which is
> all that BITE is useful for really, should always start with checking
> the supply Voltages. Gary's excellent list of the faults he has found
> over the years which is an excellent resource would I imagine start
> there as well.
>
> Tracking down the common tantalum shorts, in my limited experience the
> most common failure in radios that have been off for a while and then
> powered up, is relatively easy by a process of elimination, unplugging
> boards in turn, then a combination of looking for vanished tants or the
> short circuit they can cause if not burnt up. Mind you the one in the
> power supply on the 20V regulator can destroy both the PC board itself
> and the transistor. Obvious by the evil smell :^(
>
> So. Back to lurking.
>
> 73 - Dan
>
> ac6ao / g3ncr
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> Yahoo Groups Links
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2432. 6790 GM history

Yahoo group: Racal6790GM
Date: 2014-05-10 21:04:08 UTC
From: jgalante2000@...
Topic: 2432 Message: 2432

I own a RACAL 6790 GM and was wondering if there is a way, or if anyone maintains a database of serial #'s in order to obtain your units history, or at least partial history.

2433. VLF .bin files

Yahoo group: Racal6790GM
Date: 2014-05-29 03:26:36 UTC
From: <w5dtw2@...>
Topic: 2433 Message: 2433

I am looking for the VLF .bin files so I can burn the firmware chips

Thanks

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2434. Re: [Racal6790GM] VLF .bin files

Yahoo group: Racal6790GM
Date: 2014-05-29 18:35:56 UTC
From: gewingerd@netzero.com
Topic: 2433 Message: 2434
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2435. RE: [Racal6790GM] VLF .bin files [2 Attachments]

Yahoo group: Racal6790GM
Date: 2014-05-30 00:23:04 UTC
From: <w5dtw2@...>
Topic: 2433 Message: 2435

Thanks Gary, it looks like these files are not "plug and play" and allot of editing would be necessary, I always assumed there were three 2K chips involved, maybe I am wrong, I have been many times before.. Possibly someone has just copied the .bin file from each chip.

Craig

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Thursday, May 29, 2014 1:36 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] VLF .bin files [2 Attachments]

[Attachment(s) from gewingerd@... <mailto:gewingerd@...>
included below]

see attached

Thanks,
Gary

Please note: message attached

From: "w5dtw2@... [Racal6790GM]
<mailto:w5dtw2@...%20[Racal6790GM]> "
<Racal6790GM@yahoogroups.com <mailto:Racal6790GM@yahoogroups.com> >
To: Racal6790GM@yahoogroups.com <mailto:Racal6790GM@yahoogroups.com>
Subject: [Racal6790GM] VLF .bin files
Date: Wed, 28 May 2014 22:26:36 -0500

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2436. RE: [Racal6790GM] VLF .bin files

Yahoo group: Racal6790GM
Date: 2014-06-02 20:16:57 UTC
From: <w5dtw2@...>
Topic: 2433 Message: 2436

Got’em Thanks

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Wednesday, May 28, 2014 10:27 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] VLF .bin files

I am looking for the VLF .bin files so I can burn the firmware chips

Thanks

<http://www.avast.com/>

This email is free from viruses and malware because avast! Antivirus
<http://www.avast.com/> protection is active.

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2437. Re: [Racal6790GM] VLF .bin files

Yahoo group: Racal6790GM
Date: 2014-05-30 23:02:58 UTC
From: David Stinson
Topic: 2433 Message: 2437

My 6790 came with the ability to tune VLF.
I assume from the discussion this isn't usual?
It does not, however, have the Remote board.
How hard are they to get?

TNX OM DE AB5S

2438. Re: [Racal6790GM] VLF .bin files

Yahoo group: Racal6790GM
Date: 2014-06-03 18:01:14 UTC
From: gewingerd@netzero.com
Topic: 2433 Message: 2438
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2439. Receiver W.J.8718 serial 2294; R/D-5145, cards 796029-796032 HELP!.

Yahoo group: Racal6790GM
Date: 2014-06-28 13:44:39 UTC
From: moli_tech@...
Topic: 2439 Message: 2439

I am conscious that this is not the group directly involved in, but I do not know where to turn yet!.

Hello everyone,
my receiver periodically presents the fault of rapid change in the frequency display with digit random number often incomplete, every time I think I've solved the problem, for the first time redoing all the welds of the card
a second time by replacing all tantalum capacitors and pulling chips from the sockets by performing
performing a thorough deoxidation of the pins and sockets.
Now after three months of correct operation the problem has come back, I firmly believe that without a serious investigation on the signal path, the problem is not solvable.
Unfortunately I do not have the wiring diagrams of the cards type 796029 and 796032 mounted in my receiver, these cards are also mounted in the old MFP version.
I am therefore asking the wiring diagrams and board layout of the cards in question, by paying the amount due, as well as providing a programmed EPROM mounted on card type 796029.
Thank you for your attention.

Giovanni molifamily at tin.it

2440. Re: Receiver W.J.8718 serial 2294; R/D-5145, cards 796029-796032 HELP!.

Yahoo group: Racal6790GM
Date: 2014-06-28 14:02:30 UTC
From: maxhdrm2@...
Topic: 2439 Message: 2440

No worries, I hope that maybe someone in the group can help.

2441. Re: Receiver W.J.8718 serial 2294; R/D-5145, cards 796029-796032 HELP!.

Yahoo group: Racal6790GM
Date: 2014-06-28 14:09:02 UTC
From: moli_tech@...
Topic: 2439 Message: 2441

Thanks dell 'encouragement but I really did not find any information about the cards in question.
Giovanni.

2442. Re: Receiver W.J.8718 serial 2294; R/D-5145, cards 796029-796032 HELP!.

Yahoo group: Racal6790GM
Date: 2014-06-28 17:38:19 UTC
From: David
Topic: 2439 Message: 2442

Just a thought that you might want to post your question on the Premium Rx group list.

http://mailman.qth.net/mailman/listinfo/premium-rx

Lots of members seem to have WJ equipment and experience.

2443. Re: Racal 6790 for sale

Yahoo group: Racal6790GM
Date: 2014-07-22 17:26:16 UTC
From: whitetank@...
Topic: 2079 Message: 2443

Hi OM,

Is the 6790 still available?

Are additional images available?

73,

Mark,
N7MSR

2444. What is causing this fault?

Yahoo group: Racal6790GM
Date: 2014-08-05 12:53:24 UTC
From: jgalante2000@...
Topic: 2444 Message: 2444

I have a 6790 GM and when I turn it on it the red fault light stays on and it shows the following in the display.

93.0L0002

Anyone know what could be causing this?

2446. Re: [Racal6790GM] What is causing this fault?

Yahoo group: Racal6790GM
Date: 2014-08-05 15:03:53 UTC
From: Dan Rae
Topic: 2444 Message: 2446

On 8/5/2014 5:53 AM, jgalante2000@... [Racal6790GM] wrote:
>
>
> I have a 6790 GM and when I turn it on it the red fault light stays on
> and it shows the following in the display.
>
>
> 93.0L0002
>
>
> Anyone know what could be causing this?
>
>
The A6A2 card is not working. Just why could be any number of things.
If you search the archives I'm sure you can find one of Gary Wingerd's
standard responses with a procedure for narrowing down the fault area.

Briefly: first check all the supply voltages.
Find the dead Tantalum cap if one supply is down.

If the fault is on the CPU card itself, check for past leaking battery
damage. Check for corroded open circuit traces and VIAs on the board.
The alkali from the battery can also kill the RAM and transistors near
the battery, and get into the 34 way ribbon connector...

Good luck!

Dan - ac6ao

2447. Fault on 6790 GM

Yahoo group: Racal6790GM
Date: 2014-08-08 20:39:27 UTC
From: Richard
Topic: 2447 Message: 2447

Resolder the board is worth a try. They used plated-through holes and frequently PTH are bad, not making connection from one side of board to the other. Many are replace with a "z" wire. The reliability of PTH came into question in the late 60s and were band from many services however as time went on they became better and are used today.

K5WOR Richard

2448. Remote

Yahoo group: Racal6790GM
Date: 2014-08-17 11:59:48 UTC
From: Edwin Barlow
Topic: 2448 Message: 2448

Looking for remote control program.

2449. Re: [Racal6790GM] Remote

Yahoo group: Racal6790GM
Date: 2014-08-17 16:54:01 UTC
From: Dan Rae
Topic: 2448 Message: 2449

On 8/17/2014 4:59 AM, Edwin Barlow edbarlow001@... [Racal6790GM]
wrote:
>
>
> Looking for remote control program.
>
>
Edwin, the only one that I know off was written by W6GER. If you google
him you might find a source.

73 - Dan

ac6ao

2450. RE: [Racal6790GM] Remote

Yahoo group: Racal6790GM
Date: 2014-08-17 16:11:36 UTC
From: Leigh Sedgwick
Topic: 2448 Message: 2450
Attachments: 2 described; binary payloads are missing from this source WARC

The W6GER program is the one I know about.

http://integraonline.com/~w6ger/index.html

73 de Mike

K7PI

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Sunday, August 17, 2014 05:00
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Remote

Looking for remote control program.

2451. Re: [Racal6790GM] Remote

Yahoo group: Racal6790GM
Date: 2014-08-17 19:37:00 UTC
From: g0nbd@...
Topic: 2448 Message: 2451

There is a download link and description at :-

Racal RA6790/GM Virtual Receiver Software http://integraonline.com/~w6ger/index.html

http://integraonline.com/~w6ger/index.html

Racal RA6790/GM Virtual Receiver Software http://integraonline.com/~w6ger/index.html
Software Features A Tour through the Software Menus Download Version 2.1

View on integraonline.com http://integraonline.com/~w6ger/index.html
Preview by Yahoo

You need to hard wire a link in the plug , to ID the radio , other than that , only 2 wires are used , so obtaining the mating multi-pin plug is not 100% necessary

73-G,

2452. RE: [Racal6790GM] Remote

Yahoo group: Racal6790GM
Date: 2014-08-17 23:45:22 UTC
From: <w5dtw2@...>
Topic: 2448 Message: 2452

Does the radio have to be connected to load the software? I got errors installing it into Win7/64 and it will not run.

Craig

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Sunday, August 17, 2014 2:37 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Remote

There is a download link and description at :-

Racal RA6790/GM Virtual Receiver Software <http://integraonline.com/~w6ger/index.html>

<http://integraonline.com/~w6ger/index.html>

<http://integraonline.com/~w6ger/index.html> Racal RA6790/GM Virtual Receiver Software

Software Features A Tour through the Software Menus Download Version 2.1

<http://integraonline.com/~w6ger/index.html> View on integraonline.com

Preview by Yahoo

You need to hard wire a link in the plug , to ID the radio , other than that , only 2 wires are used , so obtaining the mating multi-pin plug is not 100% necessary

73-G,

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2453. Re: Remote

Yahoo group: Racal6790GM
Date: 2014-08-18 09:02:58 UTC
From: reece_k1@...
Topic: 2448 Message: 2453

No!! One that I use a lot is called Sorcerer, the company who made the software closed down years ago. Some people think it is pirating but I doubt that!! I mainly use it because it works the BFO offset correctly.

2454. REply: Soucerer

Yahoo group: Racal6790GM
Date: 2014-08-19 21:46:53 UTC
From: Rod Hart
Topic: 2454 Message: 2454

How can one acquire this software?

Rod Hart, wa3mez
rod.hart@...

2455. New Member Intro..

Yahoo group: Racal6790GM
Date: 2014-08-19 23:38:35 UTC
From: Chris Story
Topic: 2455 Message: 2455
Attachments: 1 described; binary payloads are missing from this source WARC

All,

I am repairing 3 RA6790/GM for the Alabama Historical Radio Society.. (these are for a members widow, to be sold i guess)

anyway, Im an active Military Radio Restorer, and have quite a collection. Im a HAM, (K6RWJ) and I live in Birmingham Alabama.

I own the website Radionerds.com which supplies free US military communications manuals to the public.

I am looking for a "CLEAN" copy of the RA6790/GM manual. I have seen the one from BAMA, and the pieces that are available on this site, but they are too low resolution to read component numbers on the schematics (well)

Does anyone have another better copy?

Because of my day job (i write printer, scanner firmware and machine code for Ricoh Corp) i have access to some rather large and sophisticated scanners... these are often used to scan manuals for radionerds..

I am willing to scan an original and return it if someone wants to extend me that level of trust (i know that IS asking a lot) however, i will absolutely certify that they resulting scanned PDF will be available for free to the community on Radionerds.

OK ive said enough...

Chris Story
Birmingham, AL
K6RWJ

2456. Re: REply: Soucerer

Yahoo group: Racal6790GM
Date: 2014-08-20 13:02:40 UTC
From: reece_k1@...
Topic: 2454 Message: 2456

Hi Rod, here is the links:Program:
sorcerer-v1.0.1.zip http://www.mediafire.com/download/yl7y79ol35u04ua/sorcerer-v1.0.1.zip

http://www.mediafire.com/download/yl7y79ol35u04ua/sorcerer-v1.0.1.zip

sorcerer-v1.0.1.zip http://www.mediafire.com/download/yl7y79ol35u04ua/sorcerer-v1.0.1.zip
MediaFire is a simple to use free service for that lets you put all your photos, documents, music, and video in a single place so you can access them anywhe...

View on www.mediafire.com
http://www.mediafire.com/download/yl7y79ol35u04ua/sorcerer-v1.0.1.zip
Preview by Yahoo

Guide:
Sorcerer_Installation_Guide.zip
http://www.mediafire.com/download/3m1w7f430cyrq80/Sorcerer_Installation_Guide.zip

http://www.mediafire.com/download/3m1w7f430cyrq80/Sorcerer_Installation_Guide.zip

Sorcerer_Installation_Guide.zip
http://www.mediafire.com/download/3m1w7f430cyrq80/Sorcerer_Installation_Guide.zip
MediaFire is a simple to use free service for that lets you put all your photos, documents, music, and video in a single place so you can access them anywhe...

View on www.mediafire.com
http://www.mediafire.com/download/3m1w7f430cyrq80/Sorcerer_Installation_Guide.zip
Preview by Yahoo

2457. Re: [Racal6790GM] New Member Intro..

Yahoo group: Racal6790GM
Date: 2014-08-20 13:47:23 UTC
From: Raymond Boute
Topic: 2455 Message: 2457

Dear Chris,
I have rather good experience with Telford for manuals.
http://www.telford-electronics.co.uk/manual.php?alpha=r
Regards,
Raymond

2458. Re: [Racal6790GM] New Member Intro..

Yahoo group: Racal6790GM
Date: 2014-08-20 17:19:45 UTC
From: casy_ch@tbwil.ch
Topic: 2455 Message: 2458

Yes, I have had nice experience even for rigs with them too. May be it is a pity they have no pdf-file, only papier copies, but their copies are always very clean and worth the money.

Jean-Claude, HB3YDH

Am 20.08.2014 um 15:47 schrieb Raymond Boute Raymond.Boute@... [Racal6790GM]:

> Dear Chris,
> I have rather good experience with Telford for manuals.
> http://www.telford-electronics.co.uk/manual.php?alpha=r
> Regards,
> Raymond

2459. Re: [Racal6790GM] New Member Intro..

Yahoo group: Racal6790GM
Date: 2014-08-20 18:08:47 UTC
From: Dan Rae
Topic: 2455 Message: 2459

On 8/19/2014 4:38 PM, Chris Story ke6rwj@... [Racal6790GM] wrote:
> I am looking for a "CLEAN" copy of the RA6790/GM manual. I have seen the one from BAMA, and the pieces that are available on this site, but they are too low resolution to read component numbers on the schematics (well)
>
>
> Does anyone have another better copy?
>
>
Chris, the pdf copy I have on my hard drive which was scanned / copied by Ed Tanton, from a 1984 copy (Change 4), is quite useable, and even has quite useful photographs. That must have been found on line somewhere and I'm sure it would do for your needs. I have an original GM-3 from Racal dated 1991 and that is not a lot better. Everything I have ever seen on the GM in the last 20 years since I've had one has been to a greater or lesser degree degraded. Gary Wingerd rescued a lot of manuals from RCI when they closed and anything you buy from him should be about as near to original as you can find nowadays.

One of the main problems is that the GM manual was designed for military type trouble shooting, i.e. module replacement only, so there is not a lot of detailed alignment details for example and you will need to refer to the UK RA1792 manuals for help there.

Telford in the UK bought the entire stock of Racal UK manuals but they have little of use for the GM as far as I can see, and they sell original and paper reproductions only so not quite what you are looking for. In general the UK manuals are a lot better than the GM, the originals I have here with their color printing and helpful annotations are very easy to work with by comparison.

73 - Dan

ac6ao / g3ncr

2460. Re: [Racal6790GM] New Member Intro..

Yahoo group: Racal6790GM
Date: 2014-08-20 18:17:30 UTC
From: gewingerd@netzero.com
Topic: 2455 Message: 2460
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2461. Re: [Racal6790GM] New Member Intro..

Yahoo group: Racal6790GM
Date: 2014-08-20 19:24:08 UTC
From: Chris Story
Topic: 2455 Message: 2461
Attachments: 1 described; binary payloads are missing from this source WARC

do you think you can provide me that PDF and see if its better?

chris story

On Aug 20, 2014, at 1:08 PM, "Dan Rae danrae@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

> On 8/19/2014 4:38 PM, Chris Story ke6rwj@... [Racal6790GM] wrote:
> > I am looking for a "CLEAN" copy of the RA6790/GM manual. I have seen the one from BAMA, and the pieces that are available on this site, but they are too low resolution to read component numbers on the schematics (well)
> >
> >
> > Does anyone have another better copy?
> >
> >
> Chris, the pdf copy I have on my hard drive which was scanned / copied
> by Ed Tanton, from a 1984 copy (Change 4), is quite useable, and even
> has quite useful photographs. That must have been found on line
> somewhere and I'm sure it would do for your needs. I have an original
> GM-3 from Racal dated 1991 and that is not a lot better. Everything I
> have ever seen on the GM in the last 20 years since I've had one has
> been to a greater or lesser degree degraded. Gary Wingerd rescued a lot
> of manuals from RCI when they closed and anything you buy from him
> should be about as near to original as you can find nowadays.
>
> One of the main problems is that the GM manual was designed for military
> type trouble shooting, i.e. module replacement only, so there is not a
> lot of detailed alignment details for example and you will need to refer
> to the UK RA1792 manuals for help there.
>
> Telford in the UK bought the entire stock of Racal UK manuals but they
> have little of use for the GM as far as I can see, and they sell
> original and paper reproductions only so not quite what you are looking
> for. In general the UK manuals are a lot better than the GM, the
> originals I have here with their color printing and helpful annotations
> are very easy to work with by comparison.
>
> 73 - Dan
>
> ac6ao / g3ncr
>
>

2462. Re: [Racal6790GM] New Member Intro.. [1 Attachment]

Yahoo group: Racal6790GM
Date: 2014-08-20 19:23:31 UTC
From: Chris Story
Topic: 2455 Message: 2462
Attachments: 1 described; binary payloads are missing from this source WARC

Gary,

Thank you for that..

My preliminary examination of three of them shows 1 which powers up but always lights FAULT and the text on the display is never the same. It does do the full test on the filters each time, so im guessing the battery is gone. It does receive the local AM Station but thats about it.

#2 and #3 both have L4 inductor blown on the "main" board bottom right corner (clearly burnt) and a couple caps around that look "heated" If i plug these boards into the good one it blows fuses in the power supply.

I was looking at the board layout image in the manual online and couldn't identify the Cap #... so i wanted a better scan.. something that wasn't a 5th generation copy..

one power supply 7820 regulator is smoked..

I cannot really determine what caused the L4 to blow in both of them, but unless someone else has experience in seeing these blown, im gonna check and replace the parts in that circuit as required and see how it goes.

Chris Story
K6RWJ

On Aug 20, 2014, at 1:17 PM, "'gewingerd@...' gewingerd@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

> [Attachment(s) from gewingerd@... included below]
> Chris,
>
> I have most of the parts for the receivers in stock, I also repair the receivers for $35.00 an hour.
> I have attached a file that will get you started.
>
> Thanks,
> Gary E. Wingerd
> gewingerd@...
> gewingerd@netzero.net
>
> Please note: message attached
>
> From: "Chris Story ke6rwj@gmail.com [Racal6790GM]" <Racal6790GM@yahoogroups.com>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] New Member Intro..
> Date: Tue, 19 Aug 2014 18:38:35 -0500

>
>
>
> From: "Chris Story ke6rwj@... [Racal6790GM]" <Racal6790GM@yahoogroups.com>
> Subject: [Racal6790GM] New Member Intro..
> Date: August 19, 2014 6:38:35 PM CDT
> To: Racal6790GM@yahoogroups.com
> Reply-To: Racal6790GM@yahoogroups.com
>
>
> All,
>
>
> I am repairing 3 RA6790/GM for the Alabama Historical Radio Society.. (these are for a members widow, to be sold i guess)
>
>
> anyway, Im an active Military Radio Restorer, and have quite a collection. Im a HAM, (K6RWJ) and I live in Birmingham Alabama.
>
>
> I own the website Radionerds.com which supplies free US military communications manuals to the public.
>
>
> I am looking for a "CLEAN" copy of the RA6790/GM manual. I have seen the one from BAMA, and the pieces that are available on this site, but they are too low resolution to read component numbers on the schematics (well)
>
>
> Does anyone have another better copy?
>
>
> Because of my day job (i write printer, scanner firmware and machine code for Ricoh Corp) i have access to some rather large and sophisticated scanners... these are often used to scan manuals for radionerds..
>
>
> I am willing to scan an original and return it if someone wants to extend me that level of trust (i know that IS asking a lot) however, i will absolutely certify that they resulting scanned PDF will be available for free to the community on Radionerds.
>
>
> OK ive said enough...
>
>
> Chris Story
> Birmingham, AL
> K6RWJ
>

>

2463. Re: [Racal6790GM] New Member Intro..

Yahoo group: Racal6790GM
Date: 2014-08-20 23:16:20 UTC
From: Wm. L. Townsend
Topic: 2455 Message: 2463

Chris,

I have an original copy of TM32-5820-030-14 & P, with updates thru March 1993. I think this is the most complete version of the manual for the R-2174/RA6790/GM.

Contact me off-list using my email address on QRZ.com and we can discuss it...

wa8ulo

On 8/19/2014 7:38 PM, Chris Story ke6rwj@... [Racal6790GM] wrote:
> All,
>
>
> I am repairing 3 RA6790/GM for the Alabama Historical Radio Society.. (these are for a members widow, to be sold i guess)
>
>
> anyway, Im an active Military Radio Restorer, and have quite a collection. Im a HAM, (K6RWJ) and I live in Birmingham Alabama.
>
>
> I own the website Radionerds.com which supplies free US military communications manuals to the public.
>
>
> I am looking for a "CLEAN" copy of the RA6790/GM manual. I have seen the one from BAMA, and the pieces that are available on this site, but they are too low resolution to read component numbers on the schematics (well)
>
>
> Does anyone have another better copy?
>
>
> Because of my day job (i write printer, scanner firmware and machine code for Ricoh Corp) i have access to some rather large and sophisticated scanners... these are often used to scan manuals for radionerds..
>
>
> I am willing to scan an original and return it if someone wants to extend me that level of trust (i know that IS asking a lot) however, i will absolutely certify that they resulting scanned PDF will be available for free to the community on Radionerds.
>
>
> OK ive said enough...

>
>
> Chris Story
> Birmingham, AL
> K6RWJ

--

Wm. L. Townsend
TES, Inc.
Richmond, IN USA
+1.513.898.0767
www.tesnet.com

2464. Re: [Racal6790GM] New Member Intro..

Yahoo group: Racal6790GM
Date: 2014-08-20 23:40:40 UTC
From: Chris Story
Topic: 2455 Message: 2464

email sent, i hope its the right one..

Chris

On Aug 20, 2014, at 6:16 PM, 'Wm. L. Townsend' wlt@... [Racal6790GM] wrote:

> Chris,
>
> I have an original copy of TM32-5820-030-14 & P, with updates thru March 1993. I think this is the most complete version of the manual for the R-2174/RA6790/GM.
>
> Contact me off-list using my email address on QRZ.com and we can discuss it...
>
> wa8ulo
>
> On 8/19/2014 7:38 PM, Chris Story ke6rwj@gmail.com [Racal6790GM] wrote:
>
>> All,
>>
>>
>> I am repairing 3 RA6790/GM for the Alabama Historical Radio Society.. (these are for a members widow, to be sold i guess)
>>
>>
>> anyway, Im an active Military Radio Restorer, and have quite a collection. Im a HAM, (K6RWJ) and I live in Birmingham Alabama.
>>
>>
>> I own the website Radionerds.com which supplies free US military communications manuals to the public.
>>
>>
>> I am looking for a "CLEAN" copy of the RA6790/GM manual. I have seen the one from BAMA, and the pieces that are available on this site, but they are too low resolution to read component numbers on the schematics (well)
>>
>>
>> Does anyone have another better copy?
>>
>>
>> Because of my day job (i write printer, scanner firmware and machine code for Ricoh Corp) i have access to some rather large and sophisticated scanners... these are often used to scan manuals for radionerds..
>>
>>
>> I am willing to scan an original and return it if someone wants to extend me that level

of trust (i know that IS asking a lot) however, i will absolutely certify that they resulting scanned PDF will be available for free to the community on Radionerds.
>>
>>
>> OK ive said enough...
>>
>>
>> Chris Story
>> Birmingham, AL
>> K6RWJ
>
> --
> ----------
> Wm. L. Townsend
> TES, Inc.
> Richmond, IN USA
> +1.513.898.0767
> www.tesnet.com
> ----------
>
>
>

2465. Re: [Racal6790GM] New Member Intro..

Yahoo group: Racal6790GM
Date: 2014-08-21 09:14:41 UTC
From: gewingerd@netzero.com
Topic: 2455 Message: 2465
Attachments: 5 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2466. Heads Up Group! Issues downloading any file

Yahoo group: Racal6790GM
Date: 2014-08-25 15:38:39 UTC
From: mdcalvert@...
Topic: 2466 Message: 2466

I visited the Group site today and discovered that every effort to download any file on the Group's page was met with an error message stating (in effect) that Internet Explorer was unable to download any file from "...xa.yimg." I may be paranoid, but that looks suspiciously like a Chinese lamguage dewcription of something that appears to be blocking access to the files.

Any ideas as to what is happening?

D Calvert in TN

2467. Re: [Racal6790GM] Heads Up Group! Issues downloading any file

Yahoo group: Racal6790GM
Date: 2014-08-25 16:02:25 UTC
From: Dan Rae
Topic: 2466 Message: 2467

On 8/25/2014 8:38 AM, mdcalvert@... [Racal6790GM] wrote:
>
>
>
> I visited the Group site today and discovered that every effort to
> download any file on the Group's page was met with an error message
> stating (in effect) that Internet Explorer was unable to download any
> file from "...xa.yimg." I may be paranoid, but that looks
> suspiciously like a Chinese lamguage dewcription of something that
> appears to be blocking access to the files.
>
> Any ideas as to what is happening?
>
>
I just downloaded three files at random without any problems... (Using
Firefox)

73 - Dan

2468. Re: [Racal6790GM] Heads Up Group! Issues downloading any file

Yahoo group: Racal6790GM
Date: 2014-08-25 16:21:59 UTC
From: Casy_ch
Topic: 2466 Message: 2468

I have downloaded 4 pdf-files 2 minutes ago to try and everything has
gone through fine.

Jean-Claude, HB3YDH

Am 25.08.2014 um 17:38 schrieb mdcalvert@... [Racal6790GM]:
>
>
> I visited the Group site today and discovered that every effort to
> download any file on the Group's page was met with an error message
> stating (in effect) that Internet Explorer was unable to download any
> file from "...xa.yimg." I may be paranoid, but that looks
> suspiciously like a Chinese lamguage dewcription of something that
> appears to be blocking access to the files.
>
> Any ideas as to what is happening?
>
> D Calvert in TN
>
>

2469. RE: [Racal6790GM] Heads Up Group! Issues downloading any file

Yahoo group: Racal6790GM
Date: 2014-08-25 16:30:50 UTC
From: KR4HV
Topic: 2466 Message: 2469

Maybe the member has a virus in his machine.

Regards,

Walt

KR4HV

kr4hv@...

"There is no excuse for doing a job poorly. Just do it right. If you don't know how, engage someone that does" WM

"It is now more difficult to obtain a driver's license in most states than to obtain an Amateur Radio license. Citizen’s Band déjà vu."WM

"Why would one celebrate an eight year old obtaining an Amateur Extra Class license? Isn’t it very demeaning to that license class, the examination, the entire licensing process and Amateur Radio? Think about it."WM

Most possessions and privileges that require no effort or pain to acquire cause little concern if ultimately lost. WM

Please be respectful when forwarding email. USE BCC: for all recipients and remove ALL email addresses Including mine when FORWARDING

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Monday, August 25, 2014 12:22 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Heads Up Group! Issues downloading any file

I have downloaded 4 pdf-files 2 minutes ago to try and everything has gone through fine.

Jean-Claude, HB3YDH

Am 25.08.2014 um 17:38 schrieb mdcalvert@... [Racal6790GM]:

I visited the Group site today and discovered that every effort to download any file on the Group's page was met with an error message stating (in effect) that Internet Explorer was unable to download any file from "...xa.yimg." I may be paranoid, but that looks suspiciously like a Chinese lamguage dewcription of something that appears to be blocking access to the files.

Any ideas as to what is happening?

D Calvert in TN

2470. Re: [Racal6790GM] Heads Up Group! Issues downloading any file

Yahoo group: Racal6790GM
Date: 2014-08-25 17:10:15 UTC
From: mstangelo@...
Topic: 2466 Message: 2470

I have the same issue downloading files from Yahoo groups using Internet Explorer. Firefox works.

Mike N2MS
----- Original Message -----
From: Dan Rae danrae@... [Racal6790GM] <Racal6790GM@yahoogroups.com>
To: Racal6790GM@yahoogroups.com
Sent: Mon, 25 Aug 2014 16:02:25 -0000 (UTC)
Subject: Re: [Racal6790GM] Heads Up Group! Issues downloading any file

On 8/25/2014 8:38 AM, mdcalvert@... [Racal6790GM] wrote:
>
>
>
> I visited the Group site today and discovered that every effort to
> download any file on the Group's page was met with an error message
> stating (in effect) that Internet Explorer was unable to download any
> file from "...xa.yimg." I may be paranoid, but that looks
> suspiciously like a Chinese lamguage dewcription of something that
> appears to be blocking access to the files.
>
> Any ideas as to what is happening?
>
>
I just downloaded three files at random without any problems... (Using Firefox)

73 - Dan

2471. Re: Heads Up Group! Issues downloading any file

Yahoo group: Racal6790GM
Date: 2014-08-25 23:48:35 UTC
From: reece_k1@...
Topic: 2466 Message: 2471

Try deleting cookies and download history.

2472. Re: Receiver W.J.8718 serial 2294; R/D-5145, cards 796029-796032 HELP!.

Yahoo group: Racal6790GM
Date: 2014-08-26 01:04:30 UTC
From: reece_k1@...
Topic: 2439 Message: 2472

Did you try sending an email to Bob Betts, his website:SWL, Shortwave Radio http://www.bobsamerica.com/swl.html

http://www.bobsamerica.com/swl.html

SWL, Shortwave Radio http://www.bobsamerica.com/swl.html Shortwave Radio and SWL projects

View on www.bobsamerica.com http://www.bobsamerica.com/swl.html
Preview by Yahoo

Good luck!

Reece.

2473. VFO tuning stuck

Yahoo group: Racal6790GM
Date: 2014-08-26 08:30:37 UTC
From: rolf_henriksen@...
Topic: 2473 Message: 2473

Hi all

Lately I experience a problem with the VFO tuning on my RA6790/GM. Some time after switching on the receiver I am unable to tune the receiver by rotating the tuning knob. The display just changes between two adjacent frequencies (+/- 1Hz or whatever step is selected). The time before this happens used to be 10 minutes to 1 hour, but now it locks after just a few revs on the VFO knob. I can still tune the receiver as normal using a computer through the RS232 interface. BITE test shows no faults. The backup battery measures good. The receiver has the VLF firmware with tuning steps 1, 30 and 1000Hz. I tried removing the A6A1 board but it made no difference.

Has anyone else seen this problem?

Thanks!

Rolf H,
Norway

2474. Re: [Racal6790GM] VFO tuning stuck

Yahoo group: Racal6790GM
Date: 2014-08-26 09:02:17 UTC
From: Casy_ch
Topic: 2473 Message: 2474

Hello Rolf

I am not sure if what I experienced might help you. On mine it was the backup battery which was low. Before replacing it I left the receiver 3 days switched on and the battery could charge itself.

On another rig I have had problem when changing the battery. If you have to change the battery be carefull. The tracks on the pcboard have a tendency to be very dry and easily detach themselves from the board when heating them.

Rgds
Jean-Claude, HB3YDH

Am 26.08.2014 um 10:30 schrieb rolf_henriksen@... [Racal6790GM]:
>
> Hi all
>
> Lately I experience a problem with the VFO tuning on my RA6790/GM.
> Some time after switching on the receiver I am unable to tune the
> receiver by rotating the tuning knob. The display just changes between
> two adjacent frequencies (+/- 1Hz or whatever step is selected). The
> time before this happens used to be 10 minutes to 1 hour, but now it
> locks after just a few revs on the VFO knob. I can still tune the
> receiver as normal using a computer through the RS232 interface. BITE
> test shows no faults. The backup battery measures good. The receiver
> has the VLF firmware with tuning steps 1, 30 and 1000Hz. I tried
> removing the A6A1 board but it made no difference.
>
> Has anyone else seen this problem?
>
> Thanks!
>
> Rolf H,
>
> Norway
>
>

2475. Re: [Racal6790GM] VFO tuning stuck

Yahoo group: Racal6790GM
Date: 2014-08-26 09:42:11 UTC
From: rolf_henriksen@...
Topic: 2473 Message: 2475

Thanks for the response Jean-Claude. Although the battery measured OK (with the board removed from the receiver), I will try to leave it on for a few days and see if there is any change.

2476. Re: [Racal6790GM] VFO tuning stuck

Yahoo group: Racal6790GM
Date: 2014-08-26 10:01:18 UTC
From: gewingerd@netzero.com
Topic: 2473 Message: 2476
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2477. Re: [Racal6790GM] VFO tuning stuck

Yahoo group: Racal6790GM
Date: 2014-08-26 10:04:41 UTC
From: gewingerd@netzero.com
Topic: 2473 Message: 2477
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2478. Re: [Racal6790GM] VFO tuning stuck

Yahoo group: Racal6790GM
Date: 2014-08-26 11:36:38 UTC
From: rolf_henriksen@...
Topic: 2473 Message: 2478

OK thanks Gary. Are there any measurements I can do on the complete circuit to tell if it is the cause? Or would I have to desolder the components first?

2479. Re: [Racal6790GM] VFO tuning stuck

Yahoo group: Racal6790GM
Date: 2014-08-26 13:57:54 UTC
From: Dan Rae
Topic: 2473 Message: 2479

On 8/26/2014 1:30 AM, rolf_henriksen@... [Racal6790GM] wrote:
>
>
> Hi all
>
> Lately I experience a problem with the VFO tuning on my RA6790/GM.
> Some time after switching on the receiver I am unable to tune the
> receiver by rotating the tuning knob. The display just changes between
> two adjacent frequencies (+/- 1Hz or whatever step is selected).
>
Rolf, I have had a similar problem, and it was one of the two optical
encoders on the panel under the tuning wheel. You need to somehow get
an oscilloscope probe in there to see what is not doing what it should.

73 - Dan

2480. Re: Receiver W.J.8718 serial 2294; R/D-5145, cards 796029-796032 HELP!.

Yahoo group: Racal6790GM
Date: 2014-08-26 14:13:54 UTC
From: moli_tech@...
Topic: 2439 Message: 2480

Thanks Reece, I've already tried, unfortunately it has no information on the cards in question.

2481. Re: [Racal6790GM] VFO tuning stuck

Yahoo group: Racal6790GM
Date: 2014-08-27 10:27:01 UTC
From: rolf_henriksen@...
Topic: 2473 Message: 2481

Thanks Dan. I will try to get hold of a scope and see if I can make any sense of it

--Rolf

2482. BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-08-29 17:42:26 UTC
From: jgalante2000@...
Topic: 2482 Message: 2482
Attachments: 1 described; binary payloads are missing from this source WARC

My 6790 GM has a BNC connection for the main antenna J1 connection, I have not seen this on other receivers. Picture attached

2483. Fault on 6790 GM

Yahoo group: Racal6790GM
Date: 2014-08-25 20:46:26 UTC
From: jgalante2000@...
Topic: 2447 Message: 2483
Attachments: 1 described; binary payloads are missing from this source WARC

Does anyone know what could be causing this fault on my 6790 GM?

2484. Autosvar

Yahoo group: Racal6790GM
Date: Unknown date
From: gåtefull mystisk
Topic: 2484 Message: 2484

Thank for your message http://www.spisdegslank.no http://www.visitnorway.com http://www.vietnamtourism.com

2485. New R-2174 TM 32-5820-030-14&P Uploaded to Radionerds

Yahoo group: Racal6790GM
Date: 2014-08-29 21:40:04 UTC
From: Chris Story
Topic: 2485 Message: 2485

Hey all,

I've completed a new scan of the Military TM for the RA-6790/GM also known as the R-2174, it can be downloaded from Radionerds at -->

http://radionerds.com/index.php/RA6790%7EGM

its 400 DPI, PDF 8.5x11, schematics and foldouts are 11x17.. so its easy to print it if desired.

no account or login is required, just go and get it.

Feel free to post this manual anywhere on the web you wish, the more places it exists, the less likely someone will be able to make money trying to sell it later.. not to mention it insures its long term survival

Special Thanks to the member who trusted me with scanning it, it will benefit the community greatly!!

Chris Story
K6RWJ
Radionerds.com

2486. Re: [Racal6790GM] BNC antenna question [1 Attachment]

Yahoo group: Racal6790GM
Date: 2014-08-29 22:28:07 UTC
From: Bob Kulow
Topic: 2482 Message: 2486

>
> My 6790 GM has a BNC connection for the main antenna J1 connection, I
> have not seen this on other receivers. Picture attached
>

Mine also has a BNC connector for the antenna
>
> 73 Bob Kulow WA2UEH/AFA4QB/P1-2-21961
>

2487. Re: [Racal6790GM] BNC antenna question [1 Attachment]

Yahoo group: Racal6790GM
Date: 2014-08-29 22:37:06 UTC
From: Dan Rae
Topic: 2482 Message: 2487

On 8/29/2014 10:42 AM, jgalante2000@... [Racal6790GM] wrote:
> [Attachment(s) from jgalante2000@... [Racal6790GM] included below]
>
> My 6790 GM has a BNC connection for the main antenna J1 connection, I
> have not seen this on other receivers. Picture attached
>
>
>
>
>
That's because you have the A1 RF amplifier option fitted. Not very common.

Your other weird display question could be a number of things. First try entering a frequency, mode etc., manually and see if that brings it back to life.

Dan

2488. Re: New R-2174 TM 32-5820-030-14&P Uploaded to Radionerds

Yahoo group: Racal6790GM
Date: 2014-08-30 00:14:27 UTC
From: reece_k1@...
Topic: 2485 Message: 2488

The download keeps bombing out for me, too slow!! Is there a mirror site?

2489. Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-08-30 00:31:38 UTC
From: jgalante2000@...
Topic: 2482 Message: 2489

Dan, Thanks for the reply, radio working again. Do you know why this amplifier was installed? What's the purpose of it? Based on original customer needs?

2490. Re: [Racal6790GM] Re: New R-2174 TM 32-5820-030-14&P Uploaded to Radionerds

Yahoo group: Racal6790GM
Date: 2014-08-30 01:38:13 UTC
From: Chris Story
Topic: 2485 Message: 2490

hey all, working on the server seems there is an issue with bandwidth..

the file is 86MB shouldn't be this painful..

Chris Story

On Aug 29, 2014, at 7:14 PM, reece_k1@... [Racal6790GM] wrote:

> The download keeps bombing out for me, too slow!! Is there a mirror site?
>
>

2491. Re: [Racal6790GM] Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-08-30 02:19:49 UTC
From: gewingerd@netzero.com
Topic: 2482 Message: 2491
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2492. Re: [Racal6790GM] Re: New R-2174 TM 32-5820-030-14&P Uploaded to Radio nerds

Yahoo group: Racal6790GM
Date: 2014-08-30 02:27:04 UTC
From: gewingerd@netzero.com
Topic: 2492 Message: 2492
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2493. Re: New R-2174 TM 32-5820-030-14&P Uploaded to Radionerds

Yahoo group: Racal6790GM
Date: 2014-08-30 02:32:00 UTC
From: reece_k1@...
Topic: 2485 Message: 2493

I searched for the file with google and found the same docs with a higher res and only 9Mb here:

Directory Listing of /eab1/manual/Hardware/R/Racal/Radio/RA6790/ http://electronicsandbooks.com/eab1/manual/index.php?dir=Hardware%2FR%2FRacal%2FRadio%2FRA6790%2F

Directory Listing of /eab1/manual/Hardware/R/Racal/Radio/RA6790/ http://electronicsandbooks.com/eab1/manual/index.php?dir=Hardware%2FR%2FRacal%2FRadio%2FRA6790%2F Help me if I helped you. Buy me a beer/coffee! Keep this site updated!

View on electronicsandbooks.com http://electronicsandbooks.com/eab1/manual/index.php?dir=Hardware%2FR%2FRacal%2FRadio%2FRA6790%2F
Preview by Yahoo

2494. Re: New R-2174 TM 32-5820-030-14&P Uploaded to Radionerds

Yahoo group: Racal6790GM
Date: 2014-08-30 05:48:38 UTC
From: reece_k1@...
Topic: 2485 Message: 2494

That site is quite amazing and covers just about all Racal radios and many others, check here through the various folders:
Directory Listing of /eab1/manual/Hardware/
http://electronicsandbooks.com/eab1/manual/index.php?dir=Hardware%2F

Directory Listing of /eab1/manual/Hardware/
http://electronicsandbooks.com/eab1/manual/index.php?dir=Hardware%2F Help me if I helped you. Buy me a beer/coffee! Keep this site updated!

View on electronicsandbooks.com
http://electronicsandbooks.com/eab1/manual/index.php?dir=Hardware%2F
Preview by Yahoo

2495. New file uploaded to Racal6790GM

Yahoo group: Racal6790GM
Date: 2014-08-30 06:23:55 UTC
From: Racal6790GM@yahoogroups.com
Topic: 168 Message: 2495

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the Racal6790GM
group.

File : /TM 32-5820-030-14 & P.pdf
Uploaded by : reece_k1 <reece_k1@...>
Description : RA6790 R-2174 Technical Manual

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/Racal6790GM/files/TM%2032-5820-030-14%20%26%20P.pdf

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

reece_k1 <reece_k1@...>

2496. Re: New R-2174 TM 32-5820-030-14&P Uploaded to Radionerds

Yahoo group: Racal6790GM
Date: 2014-08-30 06:25:29 UTC
From: reece_k1@...
Topic: 2485 Message: 2496

I have uploaded to the 'FILES' section here.

Thanks Chris.

2497. Re: [Racal6790GM] Re: New R-2174 TM 32-5820-030-14&P Uploaded to Radio nerds

Yahoo group: Racal6790GM
Date: 2014-08-30 06:26:29 UTC
From: reece_k1@...
Topic: 2492 Message: 2497

Uploaded to the 'FILES' section here Gary.

2498. Schematics, 2nd. mixer

Yahoo group: Racal6790GM
Date: 2014-08-30 08:54:05 UTC
From: Raymond Boute
Topic: 2485 Message: 2498

Dear fellow RACAL enthusiasts,

I have two questions about the RACAL schematics.

(a) The schematics for the A2 mixer show a few LC circuits that seem unconnected to anything else. How is this to be interpreted?

(b) For some receivers (e.g. RA1792), the BITE test (or self-test for non-BITE version) mentions a varactor voltage check. However, on the schematics I can't find the measuring circuits that perform this check.

Any suggestions?

73
Raymond ON4DBV

2499. Re: [Racal6790GM] Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-08-30 10:04:52 UTC
From: John Mendenhall
Topic: 2482 Message: 2499

Past AT&T overseas sites . Ie ship comm's, before satcom took over

Sent from my iPad

> On Aug 29, 2014, at 17:31, "jgalante2000@... [Racal6790GM]"
<Racal6790GM@yahoogroups.com> wrote:
>
> Dan, Thanks for the reply, radio working again. Do you know why this amplifier was installed? What's the purpose of it? Based on original customer needs?
>
>

2500. Re: [Racal6790GM] Re: New R-2174 TM 32-5820-030-14&P Uploaded to Radionerds

Yahoo group: Racal6790GM
Date: 2014-08-30 02:35:55 UTC
From: Chris Story
Topic: 2485 Message: 2500

Thats a source document directly from LOGSA! Excellent!!

it would be much smaller as its not 100% images..

Chris

On Aug 29, 2014, at 9:32 PM, reece_k1@... [Racal6790GM] wrote:

> I searched for the file with google and found the same docs with a higher res and only 9Mb here:
>
> Directory Listing of /eab1/manual/Hardware/R/Racal/Radio/RA6790/
>
> Directory Listing of /eab1/manual/Hardware/R/Racal/Radio/RA6790/
> Help me if I helped you. Buy me a beer/coffee! Keep this site updated!
> View on electronicsandbooks.com
> Preview by Yahoo
>
>
>

2501. Re: [Racal6790GM] Re: New R-2174 TM 32-5820-030-14&P Uploaded to Radionerds

Yahoo group: Racal6790GM
Date: 2014-08-30 05:11:25 UTC
From: Leigh
Topic: 2485 Message: 2501

Chris,

Got it here OK...thank you very much. Hope everyone else can download it too...very useful indeed!

Mike
K7PI

----- Original Message -----
From: Chris Story ke6rwj@... [Racal6790GM]
To: Racal6790GM@yahoogroups.com
Sent: Friday, August 29, 2014 6:38 PM
Subject: Re: [Racal6790GM] Re: New R-2174 TM 32-5820-030-14&P Uploaded to Radionerds

hey all, working on the server seems there is an issue with bandwidth..

the file is 86MB shouldn't be this painful..

Chris Story

On Aug 29, 2014, at 7:14 PM, reece_k1@... [Racal6790GM] wrote:

The download keeps bombing out for me, too slow!! Is there a mirror site?

2502. Re: [Racal6790GM] Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-08-30 16:55:41 UTC
From: Dan Rae
Topic: 2482 Message: 2502

On 8/29/2014 5:31 PM, jgalante2000@... [Racal6790GM] wrote:
>
>
> Dan, Thanks for the reply, radio working again. Do you know why this
> amplifier was installed? What's the purpose of it? Based on original
> customer needs?
>
It's more the other way round. The original design would probably have included the RF amp module as it does in the UK RA1792, because it provides in addition to the 8dB gain amp (which can be internally linked out if you don't want it) and LP filter, some input protection and a muting relay. For the US GM version it must have been decided that this wasn't necessary since they would almost certainly have been used in multi receiver installations where input protection would have been in the distribution amplifiers, so the GM has no input protection and only the simple LP filter on the input and it must have been specified this way by the US government.

Also the things that are provided on the 1792 like 100 memories and scanning, preset mode settings and auto speed up tuning rate are sadly absent in the GM. Given that it has the same size program memory, this must have been a design choice.

Dan

2503. RE: [Racal6790GM] Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-08-30 18:03:50 UTC
From: <w5dtw2@...>
Topic: 2482 Message: 2503

"Also the things that are provided on the 1792 like 100 memories and scanning, preset mode settings and auto speed up tuning rate are sadly absent in the GM. Given that it has the same size program memory, this must have been a design choice".

Could this just be a difference in firmware and possibly be adaptable to the GM??

Craig

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2504. Re: [Racal6790GM] Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-08-30 22:43:14 UTC
From: Dan Rae
Topic: 2482 Message: 2504

On 8/30/2014 11:03 AM, w5dtw2@... [Racal6790GM] wrote:
>
>
> "Also the things that are provided on the 1792 like 100 memories and
> scanning, preset mode settings and auto speed up tuning rate are sadly
> absent in the GM. Given that it has the same size program memory,
> this must have been a design choice".
>
> Could this just be a difference in firmware and possibly be adaptable
> to the GM??
>
>
Graig, in a word: no. I don't think there's anyone around who can still write code for the F8 series microprocessor who might then be able to implement the auto speed up tuning rate. And the channel / mode memories in the 1792 are in a separate EAROM off the cpu board anyway, hardware not found in the GM. All the variant GM firmware EPROMs I have seen, for example with the different tuning steps and the LF tuning, are of old origin. Apart from altering the IF filter data settings in the 1792 firmware I don't know of anyone who has altered the firmware in any of these older radios, but some have tried valiantly.

Someone might be able to write new firmware for the later Z80 cpu board, but Racal originally made that so it was identical in function to the original F8 boards, again by design choice.

73 - Dan

2505. RE: [Racal6790GM] Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-08-30 23:42:39 UTC
From: <w5dtw2@...>
Topic: 2482 Message: 2505

Thanks, I did not realize the hardware was different

Craig

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Saturday, August 30, 2014 5:43 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] Re: BNC antenna question

On 8/30/2014 11:03 AM, w5dtw2@...
<mailto:w5dtw2@...> [Racal6790GM] wrote:

"Also the things that are provided on the 1792 like 100 memories and
scanning, preset mode settings and auto speed up tuning rate are sadly
absent in the GM. Given that it has the same size program memory, this must
have been a design choice".

Could this just be a difference in firmware and possibly be adaptable to the
GM??

Graig, in a word: no. I don't think there's anyone around who can still
write code for the F8 series microprocessor who might then be able to
implement the auto speed up tuning rate. And the channel / mode memories in
the 1792 are in a separate EAROM off the cpu board anyway, hardware not
found in the GM. All the variant GM firmware EPROMs I have seen, for
example with the different tuning steps and the LF tuning, are of old
origin. Apart from altering the IF filter data settings in the 1792
firmware I don't know of anyone who has altered the firmware in any of these
older radios, but some have tried valiantly.

Someone might be able to write new firmware for the later Z80 cpu board, but
Racal originally made that so it was identical in function to the original
F8 boards, again by design choice.

73 - Dan

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2506. Re: [Racal6790GM] Schematics, 2nd. mixer

Yahoo group: Racal6790GM
Date: 2014-09-02 01:06:02 UTC
From: FRANCIS CARCIA
Topic: 2485 Message: 2506

The LC circuits couple to each other because they are side by side. I bet the Q is fairly high.
Frank. WA1GFZ

On Saturday, August 30, 2014 4:53 AM, "Raymond Boute Raymond.Boute@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

Dear fellow RACAL enthusiasts,

I have two questions about the RACAL schematics.

(a) The schematics for the A2 mixer show a few LC circuits that seem unconnected to anything else. How is this to be interpreted?

(b) For some receivers (e.g. RA1792), the BITE test (or self-test for non-BITE version) mentions a varactor voltage check. However, on the schematics I can't find the measuring circuits that perform this check.

Any suggestions?

73
Raymond ON4DBV

2507. Re: [Racal6790GM] Schematics, 2nd. mixer

Yahoo group: Racal6790GM
Date: 2014-09-03 07:46:30 UTC
From: Raymond Boute
Topic: 2485 Message: 2507

Dear Frank,

A reasonable assumption. Still, such a design
seems difficult to model, given the uncertainty
of the coupling factors. These probably even
change when the cover of the compartment is installed.

Regards,

Raymond

==========

At 03:06 2014-09-02, you wrote:
>
>
>The LC circuits couple to each other because
>they are side by side. I bet the Q is fairly high.
>Frank. WA1GFZ
>
>
>On Saturday, August 30, 2014 4:53 AM, "Raymond
>Boute Raymond.Boute@... [Racal6790GM]"
><Racal6790GM@yahoogroups.com> wrote:
>
>
>
>Dear fellow RACAL enthusiasts,
>
>I have two questions about the RACAL schematics.
>
>(a) The schematics for the A2 mixer show a few LC circuits that seem
>unconnected to anything else. How is this to be interpreted?
>
>(b) For some receivers (e.g. RA1792), the BITE test (or self-test for
>non-BITE version) mentions a varactor voltage check. However, on the
>schematics I can't find the measuring circuits that perform this check.
>
>Any suggestions?
>
>73
>Raymond ON4DBV
>
>
>
>

2508. Re: [Racal6790GM] Schematics, 2nd. mixer

Yahoo group: Racal6790GM
Date: 2014-09-03 22:05:53 UTC
From: FRANCIS CARCIA
Topic: 2485 Message: 2508

Hi Ray,
I agree. MY RA6830 has the same circuit. I think there is a bit much gain in the first IF to make up for the filter losses. The weak link in the Racal design is the filter switching. There is a lot of leakage around the filters that effects ultimate rejection.
Frank WA1GFZ

On Wednesday, September 3, 2014 3:45 AM, "Raymond Boute Raymond.Boute@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

Dear Frank,

A reasonable assumption. Still, such a design seems difficult to model,
given the uncertainty of the coupling factors. These probably even
change when the cover of the compartment is installed.

Regards,

Raymond

==========

At 03:06 2014-09-02, you wrote:

>

>The LC circuits couple to each other because they are side by side. I bet

the Q is fairly high.
>Frank. WA1GFZ
>
>
>On Saturday, August 30, 2014 4:53
AM, "Raymond Boute Raymond.Boute@... [Racal6790GM]"
<Racal6790GM@yahoogroups.com> wrote:
>
>
>
>Dear fellow RACAL enthusiasts,
>
>I have two questions about the RACAL schematics.
>
>(a) The schematics for the A2 mixer show a few LC circuits that seem
>unconnected to anything else. How is this to be interpreted?
>
>(b) For some receivers (e.g. RA1792), the BITE test (or self-test for
>non-BITE version) mentions a varactor voltage check. However, on the
>schematics I can't find the measuring circuits that perform this

check.
>
>Any suggestions?
>
>73
>Raymond ON4DBV
>
>
>
>

2509. Bad LCD displays

Yahoo group: Racal6790GM
Date: 2014-09-07 15:15:24 UTC
From: Tom B
Topic: 2509 Message: 2509

Why do Racal 6790 and 6790/GM displays go bad?
I had a box of these stored in the garage and some look bad (i.e., they have turned transparent).

I have plenty of other things with LCD displays that live in similar temperature extremes but they look and work fine.
Could someone tell me why this happens?

Tom Bryan
N3AJA

2510. Re: [Racal6790GM] Bad LCD displays

Yahoo group: Racal6790GM
Date: 2014-09-07 16:42:06 UTC
From: gewingerd@netzero.com
Topic: 2509 Message: 2510
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2511. Racal spares for sale

Yahoo group: Racal6790GM
Date: 2014-09-08 12:33:31 UTC
From: vk5abc@...
Topic: 2511 Message: 2511

Hello All

As I no longer have any of the R-6790/R6793 receivers but I have found some spares for sale
one Original Racal R-6793A Service manual hard copy
one keyboard display A9A1 board
one half built a5 isb board
two untested R6790 lcd displays that is one large and small
one part built R6793A A6A2 cpu board
Please contact direct.

73's Lee

2512. Spare parts. Willing to swap

Yahoo group: Racal6790GM
Date: 2014-09-09 17:20:27 UTC
From: rod.hart@...
Topic: 2512 Message: 2512

I upgraded my Interface and CPU cards. I would like to swap both plus the original I/O cable for filters or something else like an ISB board.. Both boards worked and the caps that failed due to age and battery on the CPU board are new.

Contact me at rod.hart@verizon.net

2513. Re: [Racal6790GM] Bad LCD displays

Yahoo group: Racal6790GM
Date: 2014-09-07 17:45:27 UTC
From: Mark Rauchfuss
Topic: 2509 Message: 2513

Hi Gary,

I joined this group about two months ago. I recently purchased a very nice 6790/GM. I wondered whether I should try to acquire spare displays for the day when those in my RX fail. I have a few questions, as follows; a) do you think this is necessary, and b) are good or NOS spares available, and c) how much should I expect to pay for same?

I greatly appreciate your comments on this matter!

73,

Mark,
N7MSR

On Sun, Sep 7, 2014 at 12:42 PM, 'gewingerd@...'
gewingerd@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote:

>
>
> Tom,
>
> The displays do not like high heat and humidity, if they are used display
> the seal on the glass may be bad for taking them out of the receivers.
> I repaired a bunch of the AT&T receivers that were left in the tower for a
> couple of years before they were removed, the tower was powered down the
> whole time they were stored.
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: "Tom B tbryan@... [Racal6790GM]" <Racal6790GM@yahoogroups.com>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] Bad LCD displays
> Date: Sun, 07 Sep 2014 11:15:24 -0400
>
>
>
>
>
> ---------- Forwarded message ----------
> From: "Tom B tbryan@... [Racal6790GM]" <Racal6790GM@yahoogroups.com>
> To: Racal6790GM@yahoogroups.com
> Cc:
> Date: Sun, 07 Sep 2014 11:15:24 -0400

> Subject: [Racal6790GM] Bad LCD displays
>
>
> Why do Racal 6790 and 6790/GM displays go bad?
> I had a box of these stored in the garage and some look bad (i.e., they
> have turned transparent).
>
> I have plenty of other things with LCD displays that live in similar
> temperature extremes but they look and work fine.
> Could someone tell me why this happens?
>
> Tom Bryan
> N3AJA
>
>
>

2514. Re: [Racal6790GM] Bad LCD displays

Yahoo group: Racal6790GM
Date: 2014-09-10 04:16:36 UTC
From: gewingerd@netzero.com
Topic: 2509 Message: 2514
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2515. Re: [Racal6790GM] Bad LCD displays

Yahoo group: Racal6790GM
Date: 2014-09-10 12:16:25 UTC
From: Mark Rauchfuss
Topic: 2509 Message: 2515

Hi Gary,

I would like to buy one of each of the displays. I can send a check or money order along to you. There is no rush, as I don't have a failure at this time. May I know you mailing address?

BTW, what is the average operating life of thses deiplays, assuming that the receiver has operated in a "normal" office environment (stable temp range of 65 to 75F, and dry)?

Thank you for the assistance, and 73,

Mark,
N7MSR

On Wed, Sep 10, 2014 at 12:16 AM, 'gewingerd@...'
gewingerd@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote:

>
>
> Mark,
>
> I have few new displays in stock, they are $60.00 each for the Frequency
> and $60.00 each for the Mode plus shipping.
>
> The guys in CANADA have them $160.00 each.
>
> Thanks,
> Gary
> gewingerd@...
>
> Please note: message attached
>
> From: "Mark Rauchfuss whitetank@... [Racal6790GM]" <
> Racal6790GM@yahoogroups.com>
> To: Racal6790GM@yahoogroups.com
> Subject: Re: [Racal6790GM] Bad LCD displays
> Date: Sun, 7 Sep 2014 13:45:27 -0400
>
>
>
>
>
> ---------- Forwarded message ----------
> From: "Mark Rauchfuss whitetank@... [Racal6790GM]" <
> Racal6790GM@yahoogroups.com>
> To: Racal6790GM@yahoogroups.com

> Cc:
> Date: Sun, 7 Sep 2014 13:45:27 -0400
> Subject: Re: [Racal6790GM] Bad LCD displays
>
>
> Hi Gary,
>
> I joined this group about two months ago. I recently purchased a very nice
> 6790/GM. I wondered whether I should try to acquire spare displays for the
> day when those in my RX fail. I have a few questions, as follows; a) do you
> think this is necessary, and b) are good or NOS spares available, and c)
> how much should I expect to pay for same?
>
> I greatly appreciate your comments on this matter!
>
>
> 73,
>
> Mark,
> N7MSR
>
> On Sun, Sep 7, 2014 at 12:42 PM, 'gewingerd@...'
> gewingerd@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote:
>
>>
>>
>> Tom,
>>
>> The displays do not like high heat and humidity, if they are used display
>> the seal on the glass may be bad for taking them out of the receivers.
>> I repaired a bunch of the AT&T receivers that were left in the tower for
>> a couple of years before they were removed, the tower was powered down the
>> whole time they were stored.
>>
>> Thanks,
>> Gary
>>
>> Please note: message attached
>>
>> From: "Tom B tbryan@... [Racal6790GM]" <Racal6790GM@yahoogroups.com>
>> To: Racal6790GM@yahoogroups.com
>> Subject: [Racal6790GM] Bad LCD displays
>> Date: Sun, 07 Sep 2014 11:15:24 -0400
>>
>>
>>
>> ---------- Forwarded message ----------
>> From: "Tom B tbryan@... [Racal6790GM]" <Racal6790GM@yahoogroups.com>
>> To: Racal6790GM@yahoogroups.com
>> Cc:

>> Date: Sun, 07 Sep 2014 11:15:24 -0400
>> Subject: [Racal6790GM] Bad LCD displays
>>
>>
>> Why do Racal 6790 and 6790/GM displays go bad?
>> I had a box of these stored in the garage and some look bad (i.e., they
>> have turned transparent).
>>
>> I have plenty of other things with LCD displays that live in similar
>> temperature extremes but they look and work fine.
>> Could someone tell me why this happens?
>>
>> Tom Bryan
>> N3AJA
>>
>>
>>
>
>

2516. Re: [Racal6790GM] Bad LCD displays

Yahoo group: Racal6790GM
Date: 2014-09-10 13:39:07 UTC
From: Tom B
Topic: 2509 Message: 2516

Hi Gary,

Do the new displays have a lower failure rate than the originals?

I see LCDs in just about everything these days and they are very rugged compared to the ones made in the 1980s.

Tom

> I would like to buy one of each of the displays. I can send a check or
> money order along to you. There is no rush, as I don't have a failure at
> this time. May I know you mailing address?
>
>
> BTW, what is the average operating life of thses deiplays, assuming that
> the receiver has operated in a "normal" office environment (stable temp
> range of 65 to 75F, and dry)?

2517. Re: [Racal6790GM] Bad LCD displays

Yahoo group: Racal6790GM
Date: 2014-09-10 17:45:11 UTC
From: gewingerd@netzero.net
Topic: 2509 Message: 2517
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2518. Re: [Racal6790GM] Bad LCD displays

Yahoo group: Racal6790GM
Date: 2014-09-10 17:49:11 UTC
From: gewingerd@netzero.net
Topic: 2509 Message: 2518
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2519. Re: [Racal6790GM] Bad LCD displays

Yahoo group: Racal6790GM
Date: 2014-09-10 18:17:58 UTC
From: Mark Rauchfuss
Topic: 2509 Message: 2519

Hello Gary,

Thank you for the speedy reply.

I'll get a check out to you. No hurry, so it'll give it a couple weeks to sure it cleared, etc.

Thank you, and 73,

Mark

On Wed, Sep 10, 2014 at 1:49 PM, 'gewingerd@...' gewingerd@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote:

>
>
> Mark,
>
> The total with shipping in the USA is $128.00, Check or money order to:
> Gary E. Wingerd
> 9107 Jordan RD.
> Fairplay, MD 21733
>
> Or PayPal to:
> gewingerd@...
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: "Mark Rauchfuss whitetank@... [Racal6790GM]" <
> Racal6790GM@yahoogroups.com>
> To: Racal6790GM@yahoogroups.com
> Subject: Re: [Racal6790GM] Bad LCD displays
> Date: Wed, 10 Sep 2014 08:16:25 -0400
>
>
>
>
>
> ---------- Forwarded message ----------
> From: "Mark Rauchfuss whitetank@... [Racal6790GM]" <
> Racal6790GM@yahoogroups.com>
> To: Racal6790GM@yahoogroups.com
> Cc:
> Date: Wed, 10 Sep 2014 08:16:25 -0400

> Subject: Re: [Racal6790GM] Bad LCD displays
>
>
> Hi Gary,
>
> I would like to buy one of each of the displays. I can send a check or
> money order along to you. There is no rush, as I don't have a failure at
> this time. May I know you mailing address?
>
> BTW, what is the average operating life of thses deiplays, assuming that
> the receiver has operated in a "normal" office environment (stable temp
> range of 65 to 75F, and dry)?
>
> Thank you for the assistance, and 73,
>
> Mark,
> N7MSR
>
> On Wed, Sep 10, 2014 at 12:16 AM, 'gewingerd@...'
> gewingerd@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote:
>
>>
>>
>> Mark,
>>
>> I have few new displays in stock, they are $60.00 each for the Frequency
>> and $60.00 each for the Mode plus shipping.
>>
>> The guys in CANADA have them $160.00 each.
>>
>> Thanks,
>> Gary
>> gewingerd@...
>>
>> Please note: message attached
>>
>> From: "Mark Rauchfuss whitetank@... [Racal6790GM]" <
>> Racal6790GM@yahoogroups.com>
>> To: Racal6790GM@yahoogroups.com
>> Subject: Re: [Racal6790GM] Bad LCD displays
>> Date: Sun, 7 Sep 2014 13:45:27 -0400
>>
>>
>>
>> ---------- Forwarded message ----------
>> From: "Mark Rauchfuss whitetank@... [Racal6790GM]" <
>> Racal6790GM@yahoogroups.com>
>> To: Racal6790GM@yahoogroups.com
>> Cc:
>> Date: Sun, 7 Sep 2014 13:45:27 -0400

>> Subject: Re: [Racal6790GM] Bad LCD displays
>>
>>
>> Hi Gary,
>>
>> I joined this group about two months ago. I recently purchased a very
>> nice 6790/GM. I wondered whether I should try to acquire spare displays for
>> the day when those in my RX fail. I have a few questions, as follows; a) do
>> you think this is necessary, and b) are good or NOS spares available, and
>> c) how much should I expect to pay for same?
>>
>> I greatly appreciate your comments on this matter!
>>
>>
>> 73,
>>
>> Mark,
>> N7MSR
>>
>> On Sun, Sep 7, 2014 at 12:42 PM, 'gewingerd@...'
>> gewingerd@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote:
>>
>>>
>>>
>>> Tom,
>>>
>>> The displays do not like high heat and humidity, if they are used
>>> display the seal on the glass may be bad for taking them out of the
>>> receivers.
>>> I repaired a bunch of the AT&T receivers that were left in the tower for
>>> a couple of years before they were removed, the tower was powered down the
>>> whole time they were stored.
>>>
>>> Thanks,
>>> Gary
>>>
>>> Please note: message attached
>>>
>>> From: "Tom B tbryan@... [Racal6790GM]" <Racal6790GM@yahoogroups.com
>>> >
>>> To: Racal6790GM@yahoogroups.com
>>> Subject: [Racal6790GM] Bad LCD displays
>>> Date: Sun, 07 Sep 2014 11:15:24 -0400
>>>
>>>
>>>
>>> ---------- Forwarded message ----------
>>> From: "Tom B tbryan@... [Racal6790GM]" <Racal6790GM@yahoogroups.com
>>> >
>>> To: Racal6790GM@yahoogroups.com

>>> Cc:
>>> Date: Sun, 07 Sep 2014 11:15:24 -0400
>>> Subject: [Racal6790GM] Bad LCD displays
>>>
>>>
>>> Why do Racal 6790 and 6790/GM displays go bad?
>>> I had a box of these stored in the garage and some look bad (i.e., they
>>> have turned transparent).
>>>
>>> I have plenty of other things with LCD displays that live in similar
>>> temperature extremes but they look and work fine.
>>> Could someone tell me why this happens?
>>>
>>> Tom Bryan
>>> N3AJA
>>>
>>>
>>>
>>
>>
>
>

2520. Heatsinks on A7 board

Yahoo group: Racal6790GM
Date: 2014-09-12 13:26:03 UTC
From: David Stinson
Topic: 2509 Message: 2520

I had to repair an A7 board awhile back.
I did not like the heat coming from the vertically-mounted
pass transistor in the front corner, nor from U27,
that unobtanium Fairchild chip near it.

I went to our local surplus house in Dallas
(Tanners. Excellent place.) and got two small heatsinks.
For the pass transistor, I twisted-out one of the side
ribs on each side, gooped-on the heatsink compound
and mounted it "sideways," tightening the screw with
a jeweler's screwdriver through the missing rib on the
free side. For the chip, I put the heatsink compound
on the chip, mounted the heat sink and used a couple
of drops of "Shoe Goo" on each end to hold it
(excellent glue availabe at WallyWorld
in the Shoe department).
Both are wicking-away a lot of the heat.

http://home.netcom.com/~arc5/Racal/IMG_3398.JPG
http://home.netcom.com/~arc5/Racal/IMG_3399.JPG
http://home.netcom.com/~arc5/Racal/IMG_3400.JPG

Can you name other chips/parts that would benefit from
an auxillary heat sink?

TNX ES 73 DE Dave AB5S

2521. Re: [Racal6790GM] Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-09-12 16:14:12 UTC
From: g0nbd@...
Topic: 2482 Message: 2521

Has anyone made the comparison,

set with RF amp and set with No Rf amp , just direct to mixer ? what are the pros / cons ??
[other than ae protection cct]

What is the low frequency response ??

Tnx- Graham

2522. Re: [Racal6790GM] Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-09-12 19:56:18 UTC
From: gewingerd@netzero.net
Topic: 2482 Message: 2522
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2523. Re: [Racal6790GM] Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-09-13 01:25:43 UTC
From: Dan Rae
Topic: 2482 Message: 2523

On 9/12/2014 9:14 AM, g0nbd@... [Racal6790GM] wrote:
>
>
> Has anyone made the comparison,
>
> set with RF amp and set with No Rf amp , just direct to mixer
> ? what are the pros / cons ?? [other than ae protection cct]
>
> What is the low frequency response ??
>
>
Graham, it depends on your antenna system and location. In Europe when there were a lot of high powered BC stations around, there was little point in using the RF amp on the lower bands which is why in their wisdom they made it with links so it could be bypassed. If you are using a low gain antenna then the RF amp is nice to have, but the situation is common to all HF receivers, does having a lower noise figure help at all? Mostly not, it is better to have the better strong signal handling and lower IP3 that you get without the gain of the RF stage.

As to LF, the 1792 UK version RF amp box has 3 x 1 ?F series caps in the RF path which gives a good response down to about 15 kHz. This one combined with the VLF mixer and narrow roofing filter that was fitted to some of the GMs makes a very good VLF receiver. The 0.1 ?F series caps shown in the US version of the RF amp would give some roll off at VLF, but whether this matters, no, I don't suppose it does really.

This was all covered in the old October 1974 Wireless World article by one of the designers of the RA1772, a copy of which is buried somewhere on my hard drive describing the thinking behind the design of that classic receiver. If I can find it, I'll send you a copy.

73 - Dan

2524. Re: [Racal6790GM] Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-09-12 22:42:56 UTC
From: Barry Williams
Topic: 2482 Message: 2524

I believe that there is no bypass switch on the Racal factory RF Amp. If it is in the radio it is operating. I didn't like the overloading on strong signals.

73,
Barry KD5VC

Sent from my Verizon Wireless 4G LTE DROID

"'gewingerd@netzero.net' gewingerd@netzero.net [Racal6790GM]"
<Racal6790GM@yahoogroups.com> wrote:

>
>
>The RF amp gives you 8-10 dbm of gain, RF protection & COR. Bandpass is 500k to 30m, however below 500k it still has 8 dbm of gain.
>
>Thanks,
>Gary
>
>Please note: message attached
>
>From: "g0nbd@hotmail.com [Racal6790GM]" <Racal6790GM@yahoogroups.com>
>To: Racal6790GM@yahoogroups.com
>Subject: Re: [Racal6790GM] Re: BNC antenna question
>Date: 12 Sep 2014 09:14:12 -0700
>
>
>
><!-- #ygrp-mkp { border: 1px solid #d8d8d8; font-family: Arial; margin: 10px 0; padding: 0 10px; } #ygrp-mkp hr { border: 1px solid #d8d8d8; } #ygrp-mkp #hd { color: #628c2a; font-size: 85%; font-weight: 700; line-height: 122%; margin: 10px 0; } #ygrp-mkp #ads { margin-bottom: 10px; } #ygrp-mkp .ad { padding: 0 0; } #ygrp-mkp .ad p { margin: 0; } #ygrp-mkp .ad a { color: #0000ff; text-decoration: none; } #ygrp-sponsor #ygrp-lc { font-family: Arial; } #ygrp-sponsor #ygrp-lc #hd { margin: 10px 0px; font-weight: 700; font-size: 78%; line-height: 122%; } #ygrp-sponsor #ygrp-lc .ad { margin-bottom: 10px; padding: 0 0; } #actions { font-family: Verdana; font-size: 11px; padding: 10px 0; } #activity { background-color: #e0ecee; float: left; font-family: Verdana; font-size: 10px; padding: 10px; } #activity span { font-weight: 700; } #activity span:first-child { text-transform: uppercase; } #activity span a { color: #5085b6; text-decoration: none; } #activity span span { color: #ff7900; } #activity span .underline { text-decoration: underline; } .attach { clear: both; display: table; font-family: Arial; font-size: 12px; padding: 10px 0; width: 400px; } .attach div a { text-decoration: none; } .attach img { border: none; padding-right: 5px; } .attach label { display: block; margin-bottom: 5px; } .attach label a { text-decoration: none; } blockquote { margin: 0 0 0 4px; } .bold { font-family: Arial; font-size: 13px; font-weight: 700; } .bold a { text-decoration: none; } dd.last p a { font-family: Verdana; font-weight: 700; } dd.last p span { margin-right:

10px; font-family: Verdana; font-weight: 700; } dd.last p span.yshortcuts { margin-right: 0; } div.attach-table div div a { text-decoration: none; } div.attach-table { width: 400px; } div.file-title a, div.file-title a:active, div.file-title a:hover, div.file-title a:visited { text-decoration: none; } div.photo-title a, div.photo-title a:active, div.photo-title a:hover, div.photo-title a:visited { text-decoration: none; } div#ygrp-mlmsg #ygrp-msg p a span.yshortcuts { font-family: Verdana; font-size: 10px; font-weight: normal; } .green { color: #628c2a; } .MsoNormal { margin: 0 0 0 0; } o { font-size: 0; } #photos div { float: left; width: 72px; } #photos div div { border: 1px solid #666666; height: 62px; overflow: hidden; width: 62px; } #photos div label { color: #666666; font-size: 10px; overflow: hidden; text-align: center; white-space: nowrap; width: 64px; } #reco-category { font-size: 77%; } #reco-desc { font-size: 77%; } .replbq { margin: 4px; } #ygrp-actbar div a:first-child { /* border-right: 0px solid #000;*/ margin-right: 2px; padding-right: 5px; } #ygrp-mlmsg { font-size: 13px; font-family: Arial, helvetica,clean, sans-serif; *font-size: small; *font: x-small; } #ygrp-mlmsg table { font-size: inherit; font: 100%; } #ygrp-mlmsg select, input, textarea { font: 99% Arial, Helvetica, clean, sans-serif; } #ygrp-mlmsg pre, code { font:115% monospace; *font-size:100%; } #ygrp-mlmsg * { line-height: 1.22em; } #ygrp-mlmsg #logo { padding-bottom: 10px; } #ygrp-msg p a { font-family: Verdana; } #ygrp-msg p#attach-count span { color: #1E66AE; font-weight: 700; } #ygrp-reco #reco-head { color: #ff7900; font-weight: 700; } #ygrp-reco { margin-bottom: 20px; padding: 0px; } #ygrp-sponsor #ov li a { font-size: 130%; text-decoration: none; } #ygrp-sponsor #ov li { font-size: 77%; list-style-type: square; padding: 6px 0; } #ygrp-sponsor #ov ul { margin: 0; padding: 0 0 0 8px; } #ygrp-text { font-family: Georgia; } #ygrp-text p { margin: 0 0 1em 0; } #ygrp-text tt { font-size: 120%; } #ygrp-vital ul li:last-child { border-right: none !important; } -->

>
>Has anyone made the comparison,
>
>
>set with RF amp   and set with No Rf amp , just direct to mixer ? what are the pros / cons ?? [other than ae protection cct]
>
>
>What is the low frequency response   ??
>
>
>Tnx- Graham
>

2525. Re: [Racal6790GM] Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-09-13 12:25:30 UTC
From: gewingerd@netzero.com
Topic: 2482 Message: 2525
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2526. Re: [Racal6790GM] Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-09-13 13:49:35 UTC
From: Dan Rae
Topic: 2482 Message: 2526

On 9/12/2014 3:42 PM, Barry Williams hroengineer@... [Racal6790GM]
wrote:
> I believe that there is no bypass switch on the Racal factory RF Amp.
> If it is in the radio it is operating. I didn't like the overloading
> on strong signals.
>
> 73,
> Barry KD5VC
>
>
Barry, It's not a switch, there are links inside. Link E7 to E10 for no
RF amp; Link E7 to E6 and E9 to E10 for the amp in circuit. It's clearly
marked on the schematic.

73 - Dan

2527. Re: [Racal6790GM] Re: BNC antenna question

Yahoo group: Racal6790GM
Date: 2014-09-13 14:11:54 UTC
From: Barry Williams
Topic: 2482 Message: 2527

Thanks to all. I just meant there is no way to switch it in and out from the front panel. It could probably be done with a switch and a relay or two. Most other receivers I have owned allow an amp or attenuator to be switched in from the front panel. The only time I had a problem was on the ham bands, or on 9 MHz using an LPDA.

73
Barry
KD5VC

2528. New 1792 owner, trying to get it going.

Yahoo group: Racal6790GM
Date: 2014-10-16 18:39:24 UTC
From: harry.zachrisson@...
Topic: 2528 Message: 2528

Hi all.
I recently acquired a faulty 1792 and I'm trying to get it going again.
I have read up on the multiple faults in this group and on this site
http://www.recelectronics.co.uk/ra1792.htm http://www.recelectronics.co.uk/ra1792.htm

Problem description:
No sounds, (sometimes there is noise and if I press CW filter is stops and wont come back)
Displays are working, at start some random numbers are displayed and after a second the freq. shows P.PPP.
The mode display shows pretty random information. Pressing Chan button toggels the Channel indicator on the the Freq. display, same with the Scan button.
Pressing Remote button also toggles the remote indicator. The frequency display slowly dims and fades out completely over the time of 10 seconds.
Turning the radio off and on again turns on the display again. Tests done:
I have followed the directions from Gary E. Wingerd and disconnected the different boards by unplugging cables W21, W22 W13, W14 and W15.
The Display behaves the same. I have put switch S1B on the front panel to On, The Display does not flash Remote so it seems id does not enter BITE? I have set the switch SA on the CPU board in different combinations, the Red LEDs always lite steadily both of them so it seems to indicate it does not enter test routines? Problems observed:
CPU board has leaky battery. Multiple vias green by alkali and eroded. IDC connector to front green alkali on pins. Remedies done:
Reseated, all ICs on CPU card to break any oxidation in the IC holders.
Applied vinegar for a short time to alkali affected vias, rinsed with water. Not all green stuff removed.
Scaped IDC pin with knife to get of green stuff.
Resoldered/reheated some vias.
Applied oil to IDC and other connectors on CPU card.
Reassembled unit. No big difference, some other behaviour at startup but still dont work.

Any suggestions how to proceed are most welcome.

Also how do I go about measuring all the supply voltages, are there any good testpoint that I can use?
I could open the lid of the PCU and measure on the backside of the 25pole D-sub but I'm afraid I will shake and short pins.

I guess the CPU card is not functional as intended and I can of course buy a new replacement for 180£ but first I would like to try to get this card going if possible.
The fading display is another matter that needs to be tackled if it's not related to the CPU board, suggestions to troubleshoot that is also welcome.

Best regards
Harry Zachrisson - SM7PNV

2529. Autosvar

Yahoo group: Racal6790GM
Date: Unknown date
From: gåtefull mystisk
Topic: 2484 Message: 2529

Takk for your message. www.spisdegslank.no http://www.spisdegslank.no http://www.visitnorway.com http://www.vietnamtourism.com

2530. Re: [Racal6790GM] New 1792 owner, trying to get it going.

Yahoo group: Racal6790GM
Date: 2014-10-17 07:40:02 UTC
From: Casy_ch
Topic: 2528 Message: 2530

Hi Harry

If the battery is down or has gone as you describe, I would not go further until you have replaced it by a new one. My RA-1792 has got problems when I do not use it for a certain time and indicates <fault> when the battery is no more well charged. I have to leave the rx switched on for a day or two so that the battery recharges, run bite and everything is ok again.

By the way when you replace the battery be careful when unsoldering its pins. I had the problem with a RA-6790 where the tracks to them lifted themselves. It seems that with the time and heat the copper clad does not hold well to the board any more. I do not know if this happens with the RA-1792 pc boards too.

73 de Jean-Claude, HB3YDH

Am 16.10.2014 um 20:39 schrieb harry.zachrisson@... [Racal6790GM]:
>
> Hi all.
>
> I recently acquired a faulty 1792 and I'm trying to get it going again.
>
> I have read up on the multiple faults in this group and on this site
> http://www.recelectronics.co.uk/ra1792.htm
>
>
> Problem description:
>
> 1. No sounds, (sometimes there is noise and if I press CW filter is
> stops and wont come back)
> 2. Displays are working, at start some random numbers are displayed
> and after a second the freq. shows P.PPP.
> The mode display shows pretty random information.
> 3. Pressing Chan button toggels the Channel indicator on the the
> Freq. display, same with the Scan button.
> Pressing Remote button also toggles the remote indicator.
> 4. The frequency display slowly dims and fades out completely over
> the time of 10 seconds.
> Turning the radio off and on again turns on the display again.
>
> Tests done:
>
> 1. I have followed the directions from Gary E. Wingerd and
> disconnected the different boards by unplugging cables W21, W22
> W13, W14 and W15.

> The Display behaves the same.
> 2. I have put switch S1B on the front panel to On, The Display does
> not flash Remote so it seems id does not enter BITE?
> 3. I have set the switch SA on the CPU board in different
> combinations, the Red LEDs always lite steadily both of them so it
> seems to indicate it does not enter test routines?
>
> Problems observed:
>
> 1. CPU board has leaky battery.
> 2. Multiple vias green by alkali and eroded.
> 3. IDC connector to front green alkali on pins.
>
> Remedies done:
>
> 1. Reseated, all ICs on CPU card to break any oxidation in the IC
> holders.
> 2. Applied vinegar for a short time to alkali affected vias, rinsed
> with water. Not all green stuff removed.
> 3. Scaped IDC pin with knife to get of green stuff.
> 4. Resoldered/reheated some vias.
> 5. Applied oil to IDC and other connectors on CPU card.
> 6. Reassembled unit. No big difference, some other behaviour at
> startup but still dont work.
>
>
>
> Any suggestions how to proceed are most welcome.
>
>
> Also how do I go about measuring all the supply voltages, are there
> any good testpoint that I can use?
>
> I could open the lid of the PCU and measure on the backside of the
> 25pole D-sub but I'm afraid I will shake and short pins.
>
>
> I guess the CPU card is not functional as intended and I can of course
> buy a new replacement for 180£ but first I would like to try to get
> this card going if possible.
>
> The fading display is another matter that needs to be tackled if it's
> not related to the CPU board, suggestions to troubleshoot that is also
> welcome.
>
>
>
> Best regards
>
> Harry Zachrisson - SM7PNV

>
>
>
>

2531. Re: [Racal6790GM] New 1792 owner, trying to get it going.

Yahoo group: Racal6790GM
Date: 2014-10-17 13:10:15 UTC
From: harry.zachrisson@...
Topic: 2528 Message: 2531
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jean Clude. Thank you for your reply and your warning about the PCB tracks coming loose but I'm afraid your to late.
The Battery took the PCB tracks with it when I unsoldered it, see picture :-)
I measured the battery and it had the correct voltage and the operations seems to be the same without it, I guess when the CPU boards is working better it will make a difference to have it installed, but as it is now it does not run BITE or any other self checks so battery might be my smallest problem ;-)
I will go out and get a replacement today anyway.

73
//Harry

2532. Re: [Racal6790GM] New 1792 owner, trying to get it going. [1 Attachment]

Yahoo group: Racal6790GM
Date: 2014-10-19 15:41:19 UTC
From: Dan Rae
Topic: 2528 Message: 2532

On 10/17/2014 6:10 AM, harry.zachrisson@... [Racal6790GM] wrote:
> I measured the battery and it had the correct voltage and the
> operations seems to be the same without it,
The battery is only necessary to preserve the RAM contents when the radio is powered off; it /will /work without it. other things being equal.

It is hard to tell from the picture you attached, but it looks like there is some damage to the board from the blue colour visible on some of the IC pins. I have seen all sorts of problems from leaking alkali in these: it will travel up transistor leads and into the body of the device, IC sockets can be damaged, likewise the 34 way connector. I even had one 1792 A6A2 board where the stuff had travelled down the edge of the board into the 50 way interface connector, because it had been stored sitting on the back of the unit. But the main problems are likely to be the board itself; as well as the VIAs being damaged, it can get under the solder resist layer and damage the tracks themselves. I have had to do continuity testing on the whole board to solve these difficult cases with up to a dozen tracks being found to be open. However the fact that yours works at all is a good sign, and also it is a late version of the cpu card and battery type, from what I can see.

It should be easy enough to fix the connections to the battery, and there is an NiMH equivalent that works fine, won't leak, and should be easy enough to find wherever you are.

A good multimeter with continuity testing is going to be your best tool.

Good luck!

Dan

ac6ao / g3ncr

2533. RA1792 GPIB control, T command

Yahoo group: Racal6790GM
Date: 2014-10-27 15:29:37 UTC
From: i1epj@...
Topic: 2533 Message: 2533

I'm new to the group, and I hope someone can give me some advice.

I own a RA1792 (the old model without backlight, 1Hz steps) with GPIB interface and I'm writing a program to control it using the Prologix USB-to-GPIB interface.

Things are going well, but I have encountered a little problem.

The manual I have says:

26. The 'R' parameter may be used after 'T' to return the IF level (between 0 and 150) after filtering.

The problem is that the T command does not recognise at all the R parameter, so the question is whether this parameter only exists in certain software version, or needs some hardware option to be fitted, or whatever.

Any advice will be greatly appreciated.

73 de I1EPJ

2534. Re: [Racal6790GM] RA1792 GPIB control, T command

Yahoo group: Racal6790GM
Date: 2014-10-27 17:09:45 UTC
From: Casy_ch
Topic: 2533 Message: 2534

Hello Giuseppe

Your project is very interesting. I had two R1792, sold one and still have one with a MA-2232. It does not have the optional I/O Control socket. I have a <User manual> and a <Maintenance Manual> but cannot find anything about the code to program the I/O.

I don't know if the following links can help you further:
http://rxcontrol.free.fr/PicGPIB/

http://prologix.biz/?sef_rewrite=1&gclid=CMTLpJupzcECFarjwgodjVQAdQ

73 de Jean-Claude, HB3YDH

Am 27.10.2014 um 16:29 schrieb i1epj@... [Racal6790GM]:
>
> I'm new to the group, and I hope someone can give me some advice.
>
>
> I own a RA1792 (the old model without backlight, 1Hz steps) with GPIB
> interface and I'm writing a program to control it using the Prologix
> USB-to-GPIB interface.
>
>
> Things are going well, but I have encountered a little problem.
>
>
> The manual I have says:
>
>
> 26. The 'R' parameter may be used after 'T' to return the IF level
> (between 0 and 150) after filtering.
>
>
> The problem is that the T command does not recognise at all the R
> parameter, so the question is whether this parameter only exists in
> certain software version, or needs some hardware option to be fitted,
> or whatever.
>
>
> Any advice will be greatly appreciated.
>
>
> 73 de I1EPJ
>
>

>
>
>

2535. Re: [Racal6790GM] RA1792 GPIB control, T command

Yahoo group: Racal6790GM
Date: 2014-10-27 19:52:07 UTC
From: i1epj@...
Topic: 2533 Message: 2535

Hello,

thank you for your answer.

Yes, I knew those links, I purchased my USB-GPIB interface directly from Prologix, and once I have finished the program using this interface, maybe I will add support for the RS232-GPIB interface described at the first link.

If you have a copy of the maintenance manual, can you verify if it says the same thing as mine? See in Appendix 4 (IEEE 488 REMOTE CONTROL OPTION) paragraph 26 (in my copy is at page 4-6). As I wrote in the previous message, my copy says:

26. The 'R' parameter may be used after 'T' to return the RF level (between 0 and 150) after IF filtering.

But that does not work, at least on my unit... All other commands described there instead work as expected.

Thank you in advance.

73 de I1EPJ

2536. Re: [Racal6790GM] RA1792 GPIB control, T command

Yahoo group: Racal6790GM
Date: 2014-10-27 23:36:04 UTC
From: Dan Rae
Topic: 2533 Message: 2536

On 10/27/2014 12:52 PM, i1epj@... [Racal6790GM] wrote:
>
> If you have a copy of the maintenance manual, can you verify if it
> says the same thing as mine? See in Appendix 4 (IEEE 488 REMOTE
> CONTROL OPTION) paragraph 26 (in my copy is at page 4-6). As I wrote
> in the previous message, my copy says:
>
> 26. The 'R' parameter may be used after 'T' to return the RF level
> (between 0 and 150) after IF filtering.
>
> But that does not work, at least on my unit... All other commands
> described there instead work as expected.
>
>
Both the manuals I have that contain this appendix 4 with that detail in
it are for the Mark 5 and 6 versions of the 1792 (with two eproms), so
it is entirely possible, since I think you have the earlier, non back
lit version, that the firmware for that version was different, and taht
there was no provision for returning the IF level.

There were certainly GPIB versions of the firmware for the older 3 eprom
version which I presume you have but I have no details of how they behave.

Is the manual that you have for the same version of the receiver that
you own? I suspect not...

Good luck!

Dan

ac6ao / g3ncr

2537. Re: [Racal6790GM] RA1792 GPIB control, T command

Yahoo group: Racal6790GM
Date: 2014-10-29 16:42:36 UTC
From: i1epj@...
Topic: 2533 Message: 2537

You are right, it's a manual downloaded somewhere in internet, so it is more that likely that it is not for the older RA1792 version I have (non-backlit, with BITE and GPIB).

So I will write the code for the level reading blindly, hoping that the reply syntax is similar to the reply sent back for the other talker commands G and T.

Thank you very much for your help.

73 de I1EPJ

2538. Re: 6790GM AGC Modification

Yahoo group: Racal6790GM
Date: 2014-11-04 10:10:02 UTC
From: marniky@...
Topic: 1582 Message: 2538

Hello Mark,
very interesting argument.
Can I have some detail about 1792 AGC modification?
Thank you very much.
Niky

2539. Want To Buy 6790 or equivalent

Yahoo group: Racal6790GM
Date: 2014-11-12 13:34:37 UTC
From: Gary Poss
Topic: 2539 Message: 2539

Condition and options - all offers considered.

Anywhere from a junker to fully restored.

I do like to tinker, play, and learn.

Thanks,
Gary - K5WWQ

2540. RA-6217-E Information and Repair Resources

Yahoo group: Racal6790GM
Date: 2014-11-12 13:52:11 UTC
From: Gary Poss
Topic: 2540 Message: 2540

Just starting to restore my RA-6217-E and do not have correct manuals, schematics, alignment instructions, etc for this specific receiver which was manufactured in Maryland.

I do have information on a RA-1217 which was manufactured in England, but there are quite a few differences, making restoration difficult - at least for me.

Therefore, I am looking for as much information on this specific model as I can obtain.

Also, in case I get in over my head ... very possible :) ... I am looking for someone who is knowledgeable and capable of repairing the RA-6217-E.

Thank You,
Gary - K5WWQ

2541. Re: [Racal6790GM] RA-6217-E Information and Repair Resources

Yahoo group: Racal6790GM
Date: 2014-11-12 16:58:20 UTC
From: Dan Rae
Topic: 2540 Message: 2541

On 11/12/2014 5:52 AM, Gary Poss garyposs@... [Racal6790GM] wrote:
>
>
>
> Just starting to restore my RA-6217-E and do not have correct manuals,
> schematics, alignment instructions, etc for this specific receiver
> which was manufactured in Maryland.
>
> I do have information on a RA-1217 which was manufactured in England,
> but there are quite a few differences, making restoration difficult -
> at least for me.
Gary, they are indeed very different, except for the broad outline of course. Also there are significant differences in the various models of the 6217. I have both UK and US models here as well as some spare 6217 modules if there is anything specific that you need. I don't know of any source for 6217 electronic manuals.

73 - Dan

ac6ao / g3ncr

2542. Re: [Racal6790GM] RA-6217-E Information and Repair Resources

Yahoo group: Racal6790GM
Date: 2014-11-12 17:45:34 UTC
From: Dan Rae
Topic: 2540 Message: 2542

Gary, from my notes, the main difference in the -E model of the 6217 is that it has a big switch linked to the Mc/s control that feeds an external Bandpass Filter box. Otherwise the manuals for the -A. -A1W and plain 6217 models would work for you. The differences in the rest are minor: different connectors, panadapter outputs or not, 100 Kc/s or 455 Kc/s IF out and so on...

73 - Dan

2543. RA1792 GPIB RxControl

Yahoo group: Racal6790GM
Date: 2014-11-12 20:43:53 UTC
From: marniky@...
Topic: 2543 Message: 2543

Hello,
I am looking for .hex file to program the Pic 16F76 or 16F876A for Serial to GPIB RA-1792 converter
I tried to contact the author B.Velle without success, I know the project is a little bit old.
Can someone help me? If someone has this file could please contact me?
My mail: marniky(at)tiscali.it
Thank you in advance.
Bye.
Niky

2544. Re: Want To Buy 6790 or equivalent

Yahoo group: Racal6790GM
Date: 2014-11-19 20:28:07 UTC
From: garyposs@...
Topic: 2539 Message: 2544

Thanks to all who replied. I did choose one receiver that needs a little work and fits my budget. I am now starting to diagnose, learn, and restore. Regards to all.

2545. Racal Receiver

Yahoo group: Racal6790GM
Date: 2014-11-13 00:56:05 UTC
From: FRANCIS CARCIA
Topic: 2545 Message: 2545

Hi Gary,
I have a few extra Racal RA6830s. Over the years I built around 20 of them from modules purchased from Gary Wingerd. I build a few custom units. The RA6830 is newer than the RA6790. I have scanned service manuals and Gary provided me some software source code. The radio is a 1/2 rack with LED displays. No LCDs to fade out. I do at least one modification on all my RA6830s. There is a TO3 LM317 voltage regulator on the front panel board that runs quite hot. I mount one in a TO220 package on the chassis side wall that provides a massive heat sink so it runs stone cold. The 6830 shares many of the 6790 RF circuits but it has a more modern processor the NSC800 and the synthesizer logic is an LSI chip. The first mixer is changed from 4 FETs to a SD5000. Gary sells a modification board for the 6790 that uses the SD5000 quad FET. They work down to zero hz with the right firmware and performance is actually quite good to 50kHz. Sensitivity rolls off a bit
below that.
Frank Carcia WA1GFZ

2546. Re: RA-6217-E Information and Repair Resources

Yahoo group: Racal6790GM
Date: 2014-11-19 20:24:13 UTC
From: garyposs@...
Topic: 2540 Message: 2546

Thanks - I appreciate the comments on the differences. I have obtained a manual and schematics - now it it time to the trouble shooting. 73.

2547. Re: RA-6217-E Information and Repair Resources

Yahoo group: Racal6790GM
Date: 2014-11-19 20:21:54 UTC
From: garyposs@...
Topic: 2540 Message: 2547

Thanks - I appreciate the comments. I have located a manual and schematics. I'll see what happens when I dig into it. 73.

2548. Re: [Racal6790GM] Racal Receiver

Yahoo group: Racal6790GM
Date: 2014-11-19 23:28:24 UTC
From: Mark Rauchfuss
Topic: 2545 Message: 2548

Hi Francis,

What are you asking for the best of your 6830 RXs?

Mark,
N7MSR

On Wed, Nov 12, 2014 at 7:56 PM, FRANCIS CARCIA carcia@...
[Racal6790GM] <Racal6790GM@yahoogroups.com> wrote:

>
>
> Hi Gary,
> I have a few extra Racal RA6830s. Over the years I built around 20 of them
> from modules purchased from Gary Wingerd. I build a few custom units. The
> RA6830 is newer than the RA6790. I have scanned service manuals and Gary
> provided me some software source code. The radio is a 1/2 rack with LED
> displays. No LCDs to fade out. I do at least one modification on all my
> RA6830s. There is a TO3 LM317 voltage regulator on the front panel board
> that runs quite hot. I mount one in a TO220 package on the chassis side
> wall that provides a massive heat sink so it runs stone cold. The 6830
> shares many of the 6790 RF circuits but it has a more modern processor the
> NSC800 and the synthesizer logic is an LSI chip. The first mixer is changed
> from 4 FETs to a SD5000. Gary sells a modification board for the 6790 that
> uses the SD5000 quad FET. They work down to zero hz with the right
> firmware and performance is actually quite good to 50kHz. Sensitivity rolls
> off a bit below that.
> Frank Carcia WA1GFZ
>
>
>

2549. RA6830

Yahoo group: Racal6790GM
Date: 2014-11-20 02:25:23 UTC
From: FRANCIS CARCIA
Topic: 2549 Message: 2549

Mark,
I wonder if you know anything about the RA6830? There are a couple of options. The units with the IEEE488 interface module have firmware that tunes between .5MHz and 30 MHz. The RS232 or no remote board installed can tune zero to 30 MHz. Then there is the filter selection. The filter board holds 5 filters but I have a couple modules with a sixth filter. This is a aux IF amplifier output with a 16khz bandwidth. I guess it may have been for a spectrum display source.
Then there is the A8 module that down converts the 455khz IF to 6.4khz baseband.
Also A friend and I built a couple custom A8 boards. I did the design and he did the artwork. Then i built and tested them. He has since sold his radio on ebay. We built them about 6 years ago. I think he got a license and sold it to buy a transceiver. It is basically my version of a softrock that plugs into the radio and produces an I/Q output that can go into a computer sound card to do SDR demodulation.
I stopped building them because Gary was starting to run low on modules and started jacking up his prices. The last one I built cost me $1200 to build a basic radio. At the time I was only making a couple hundred on each radio. I thought charging $1400 for the basic radio was getting kind of high.
My deal is I build a wood crate and ship Fedex ground. I tell people screw pay pal I do not have an account. Go to the post office and get a USPS money order from them and use that for payment.
This way if there is any problems I get to deal with the FEDs and mail fraud. So you know I have no desire to rip anyone off. I've only had one radio come back from the longest distance of course, Washington state. An IC failed on one of the boards.
Please do not respond on yahoo. I don't need to get over run by tire kickers looking for a gift. I think I have around 6 of them of different configurations and a couple need minor repairs. I can troubleshoot them to the component level.
My hot rod version radio is not for sale. It has cascaded filter modules. Two filter modules with mechanical filters just fits in the space. The crystal filters are a lot taller. The 6830 uses the same filters as the 6790. I might let a couple of them go.
Frank WA1GFZ

2550. Re: [Racal6790GM] RA6830

Yahoo group: Racal6790GM
Date: 2014-11-20 14:48:32 UTC
From: Al
Topic: 2549 Message: 2550

Frank,
Are you selling?
Al

Sent from my iPad

> On Nov 19, 2014, at 6:25 PM, "FRANCIS CARCIA carcia@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:
>
> Mark,
> I wonder if you know anything about the RA6830? There are a couple of options. The units with the IEEE488 interface module have firmware that tunes between .5MHz and 30 MHz. The RS232 or no remote board installed can tune zero to 30 MHz. Then there is the filter selection. The filter board holds 5 filters but I have a couple modules with a sixth filter. This is a aux IF amplifier output with a 16khz bandwidth. I guess it may have been for a spectrum display source.
> Then there is the A8 module that down converts the 455khz IF to 6.4khz baseband.
> Also A friend and I built a couple custom A8 boards. I did the design and he did the artwork. Then i built and tested them. He has since sold his radio on ebay. We built them about 6 years ago. I think he got a license and sold it to buy a transceiver. It is basically my version of a softrock that plugs into the radio and produces an I/Q output that can go into a computer sound card to do SDR demodulation.
> I stopped building them because Gary was starting to run low on modules and started jacking up his prices. The last one I built cost me $1200 to build a basic radio. At the time I was only making a couple hundred on each radio. I thought charging $1400 for the basic radio was getting kind of high.
> My deal is I build a wood crate and ship Fedex ground. I tell people screw pay pal I do not have an account. Go to the post office and get a USPS money order from them and use that for payment.
> This way if there is any problems I get to deal with the FEDs and mail fraud. So you know I have no desire to rip anyone off. I've only had one radio come back from the longest distance of course, Washington state. An IC failed on one of the boards.
> Please do not respond on yahoo. I don't need to get over run by tire kickers looking for a gift. I think I have around 6 of them of different configurations and a couple need minor repairs. I can troubleshoot them to the component level.
> My hot rod version radio is not for sale. It has cascaded filter modules. Two filter modules with mechanical filters just fits in the space. The crystal filters are a lot taller. The 6830 uses the same filters as the 6790. I might let a couple of them go.
> Frank WA1GFZ
>

2551. I think I have damaged my 6790/GM.

Yahoo group: Racal6790GM
Date: 2014-11-26 13:20:32 UTC
From: Kevin
Topic: 2136 Message: 2551

I think I have damaged my 6790/GM.

I accidentally left it powered on, on longwave, connected to a low 75 meter dipole while I transmitted with a kilowatt on 75 meters into a nearby antenna.

Now it has extremely poor sensitivity.

My time is very limited and I love my 6790, so I wonder what should be checked first.

Thanks,

Kevin.

2552. Re: [Racal6790GM] I think I have damaged my 6790/GM.

Yahoo group: Racal6790GM
Date: 2014-11-26 14:38:06 UTC
From: Dan Rae
Topic: 2136 Message: 2552

On 11/26/2014 5:20 AM, Kevin kevin.alfred.strom@...
[Racal6790GM] wrote:
> I think I have damaged my 6790/GM.
>
> I accidentally left it powered on, on longwave, connected to a low
> 75 meter dipole while I transmitted with a kilowatt on 75 meters
> into a nearby antenna.
>
> Now it has extremely poor sensitivity.
>
> My time is very limited and I love my 6790, so I wonder what should
> be checked first.
>
The first mixer obviously. They can be repaired but it's not an easy job. Spare assemblies are easy enough to find from the folk who break receivers up and sell the parts on eBay if you feel lucky. I have a few tested ones if you don't get a better offer :^)

73 - Dan

ac6ao

2553. Re: [Racal6790GM] I think I have damaged my 6790/GM.

Yahoo group: Racal6790GM
Date: 2014-11-26 15:06:33 UTC
From: Casy_ch
Topic: 2136 Message: 2553

Hi Kevin

Bad luck! Before checking the rx, build a relay to put the receiving antennas at ground when transmitting nearby.

Jean-Claude

Am 26.11.2014 um 14:20 schrieb Kevin kevin.alfred.strom@... [Racal6790GM]:

> I think I have damaged my 6790/GM.
>
> I accidentally left it powered on, on longwave, connected to a low
> 75 meter dipole while I transmitted with a kilowatt on 75 meters
> into a nearby antenna.
>
> Now it has extremely poor sensitivity.
>
> My time is very limited and I love my 6790, so I wonder what should
> be checked first.
>
> Thanks,
>
> Kevin.
>
>
>
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> Yahoo Groups Links
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>
>

2554. Re: [Racal6790GM] I think I have damaged my 6790/GM.

Yahoo group: Racal6790GM
Date: 2014-11-26 18:35:46 UTC
From: gewingerd@netzero.com
Topic: 2136 Message: 2554

Kevin,

I sell FET kits for the A2 card in the receiver for $100.00 plus shipping. I can repair the card or you can purchase one from EBAY, they can go for as little as $20.00 UP TO $200.00 depending on if they are tested or not.
You can run BITE on the receiver with the LOCK & AM button at the same time, LOCK and CW will return the receiver to local.

Thanks,
Gary

---------- Original Message ----------
From: "Kevin kevin.alfred.strom@revilo-oliver.com [Racal6790GM]"
<Racal6790GM@yahoogroups.com>
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] I think I have damaged my 6790/GM.
Date: Wed, 26 Nov 2014 08:20:32 -0500

I think I have damaged my 6790/GM.

I accidentally left it powered on, on longwave, connected to a low
75 meter dipole while I transmitted with a kilowatt on 75 meters
into a nearby antenna.

Now it has extremely poor sensitivity.

My time is very limited and I love my 6790, so I wonder what should
be checked first.

Thanks,

Kevin.

Yahoo Groups Links

2555. RA6830/6840 pinouts

Yahoo group: Racal6790GM
Date: 2014-12-04 17:25:09 UTC
From: prkauffmn@...
Topic: 2555 Message: 2555

Hello to the group, was attracted to this group as I am a service tech for an electronics surplus store which has come across 2 Racal RA6830JD's and one RA6840. I have done work on RA6790's and these seem similar except for being half rack mount width. I haven't found any info in our files on them and would like to ask the group if they have any.

Does anyone has the pinouts for the J12 DB-25 connector on the back of the RA6830JD, and does anyone has any info on the RA6840 at all. It appears to be similar to the 6830 but has no IF or audio gain knobs, no headphone jack, and no J-12 connector. Any information on this unit would be greatly appreciated.

Paul

2556. Re: [Racal6790GM] RA6830/6840 pinouts

Yahoo group: Racal6790GM
Date: 2014-12-09 00:22:59 UTC
From: FRANCIS CARCIA
Topic: 2555 Message: 2556

Paul,
Pin 18 is the 1/2 watt audio output with 7,8,9 ground. The 6830 shares many of the 6790 circuits but has a more modern synthesizer and first mixer.
The 6840 is only useful as a source of spare modules. It is a wideband down converter. I think it was used in HF DF systems.
Frank WA1GFZ

On Monday, December 8, 2014 11:05 AM, "prkauffmn@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

Hello to the group, was attracted to this group as I am a service tech for an electronics surplus store which has come across 2 Racal RA6830JD's and one RA6840. I have done work on RA6790's and these seem similar except for being half rack mount width. I haven't found any info in our files on them and would like to ask the group if they have any.

Does anyone has the pinouts for the J12 DB-25 connector on the back of the RA6830JD, and does anyone has any info on the RA6840 at all. It appears to be similar to the 6830 but has no IF or audio gain knobs, no headphone jack, and no J-12 connector. Any information on this unit would be greatly appreciated.

Paul

2557. Re: [Racal6790GM] RA6830/6840 pinouts

Yahoo group: Racal6790GM
Date: 2014-12-10 14:15:42 UTC
From: prkauffmn@...
Topic: 2555 Message: 2557

Thank you Frank, I was kind of suspecting the 6840 was something like that. The two 6830's we have fortunately don't need any modules, they are both working, so we will probably part out the 6840.

There is one other thing I was wondering if you or anyone else knew about. One of the 6830's has only 3 filters, missing the 300 Hz and 16 kHz ones. We have several defunct 6790's I could take filters from, but when I swapped filter modules with the other 6830, the unit in question still only would select three of them. Is there some switch or programming change that must be done to get the unit to recognize additional filters? Thanks.

Paul

2558. Re: RA-6217-E Information and Repair Resources

Yahoo group: Racal6790GM
Date: 2014-12-24 15:21:47 UTC
From: n8kom@...
Topic: 2540 Message: 2558

Hello All - I saw this thread and was wondering if anyone could share the signal / pin info on the preselector control output from the RA6217E. I believe that this is from the Winchester style connector marked J3401 on the receiver rear panel. I am led to believe that this controls the bandswitching for a RA6397 bandpass filter.

Thanks for any tips or info - Hope everyone has a great holiday season.

Steve - N8KOM

Direct email - "mycallsign"@wowway.com

2559. RA6790/GM remote / A6A1 noise?

Yahoo group: Racal6790GM
Date: 2014-12-24 15:40:56 UTC
From: n8kom@...
Topic: 2559 Message: 2559

Hello All -
I read some prior posts regarding noise or hash when using the remote function through the A6A1 interface. I am facing the same or similar issue. The remote interface works correctly, and I can control the radio using the PC, but as soon as the cable is connected to the rear of the receiver, I get a very noticeable increase in hash noise (larger and smaller in certain spots as I tune around). The noise is greatly reduced or eliminated when I disconnect the remote cable. The cable does NOT have to be connected to the PC serial connector for this to happen, and it happens or still exists when the remote cable is connected to the PC and radio.

Any suggestions for tracking this down or fixing? I think I read that someone had to remove the A6A1 board from their receiver because of objectionable noise being picked up - I would like to avoid having to do that.

Thanks!

Steve - N8KOM

2560. Re: [Racal6790GM] Re: RA-6217-E Information and Repair Resources

Yahoo group: Racal6790GM
Date: 2014-12-24 23:22:09 UTC
From: Bob Kulow
Topic: 2540 Message: 2560

I have a manual for my 6217E. I can't immediately find it. When I do,
I'll get the info to you.

--
73
Bob Kulow WA2UEH/AFA4QB/P1-2-21961

2561. Re: [Racal6790GM] Re: RA-6217-E Information and Repair Resources

Yahoo group: Racal6790GM
Date: 2014-12-27 00:37:04 UTC
From: n8kom@...
Topic: 2540 Message: 2561

Thanks Bob -

73 - Steve

2562. Re: RA6790/GM remote / A6A1 noise?

Yahoo group: Racal6790GM
Date: 2015-01-15 12:00:46 UTC
From: reece_k1@...
Topic: 2559 Message: 2562

Hi Steve, have you tried a clip on noise suppressor at the radio end, best to loop the cable through the suppressor as many times as possible. Also is the cable shielded and ground to the radio earth?
This type of noise can be a pain to resolve, good luck!!

2563. RA6793A $2000.00 plus shipping

Yahoo group: Racal6790GM
Date: 2015-02-15 23:08:28 UTC
From: gewingerd@...
Topic: 2563 Message: 2563

RA6793A 14 KHz TRUE LOW FREQUENCY HF RECEIVER

Unit has the following cards installed

A1 9691

A2 4100564-501

A3 8191-B3

A4 4100383-501

A4FL1 7883-6

A4FL2 7883-5

A4FL3 7883-1

A4FL4 7883-2

A4FL5 7883-3

A4FL6 7883-4

A4FL7 Jumper

A6A1 4100385-501

A6A2 4100386-501

Software is 1600083-1 for A6A2U6 & A6A2U7

A7 9125 SPECIAL

A8 8387

A9A1 8950

A9A2 8952

A10 8389

* A5 NOT INSTALLED
I have repaired the A2, A3, A8, Replaced the A7 card with a brand new 9125 card, replaced BT1 on the A6A2 card, installed new displays, new tuning knob, chrome handles. Runs BITE and fully aligned. Most of the cards have conformal coating.

This unit is a special because it is mostly a RA6793A-6 unit with a single audio output on the front. 100 Channel Memory that has been cleaned and is ready to go.

Thanks,
Gary E Wingerd

2564. Re: [Racal6790GM] RA6793A $2000.00 plus shipping

Yahoo group: Racal6790GM
Date: 2015-02-16 01:28:24 UTC
From: Al
Topic: 2563 Message: 2564

Gary,
Are there pictures, inside?
Al Royce

Sent from my iPad

> On Feb 15, 2015, at 3:08 PM, "gewingerd@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:
>
>
>
> RA6793A 14 KHz TRUE LOW FREQUENCY HF RECEIVER
>
> Unit has the following cards installed
>
> A1 9691
>
> A2 4100564-501
>
> A3 8191-B3
>
> A4 4100383-501
>
> A4FL1 7883-6
>
> A4FL2 7883-5
>
> A4FL3 7883-1
>
> A4FL4 7883-2
>
> A4FL5 7883-3
>
> A4FL6 7883-4
>
> A4FL7 Jumper
>
> A6A1 4100385-501
>
> A6A2 4100386-501
>
> Software is 1600083-1 for A6A2U6 & A6A2U7
>
> A7 9125 SPECIAL
>

> A8 8387
>
> A9A1 8950
>
> A9A2 8952
>
> A10 8389
>
>
>
> * A5 NOT INSTALLED
> I have repaired the A2, A3, A8, Replaced the A7 card with a brand new 9125 card, replaced BT1 on the A6A2 card, installed new displays, new tuning knob, chrome handles. Runs BITE and fully aligned. Most of the cards have conformal coating.
>
>
>
>
> This unit is a special because it is mostly a RA6793A-6 unit with a single audio output on the front. 100 Channel Memory that has been cleaned and is ready to go.
>
> Thanks,
> Gary E Wingerd
>
>
>
>

2565. Re: [Racal6790GM] RA6793A $2000.00 plus shipping

Yahoo group: Racal6790GM
Date: 2015-02-16 01:53:38 UTC
From: gewingerd@netzero.net
Topic: 2563 Message: 2565
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2566. Re: [Racal6790GM] RA6793A $2000.00 plus shipping

Yahoo group: Racal6790GM
Date: 2015-02-16 17:34:29 UTC
From: gewingerd@netzero.net
Topic: 2563 Message: 2566
Attachments: 4 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2567. Re: [Racal6790GM] RA6793A $2000.00 plus shipping [4 Attachments]

Yahoo group: Racal6790GM
Date: 2015-02-16 17:52:17 UTC
From: Casy_ch
Topic: 2563 Message: 2567

Hi Al

I have one RA-1793 from Gary. I can only recommend it and him. The rx is working perfectly since 5 years here.

Jean-Claude, HB3YDH

Am 16.02.2015 um 18:34 schrieb 'gewingerd@...'
gewingerd@... [Racal6790GM]:
> [Attachment(s) <#TopText> from gewingerd@... included below]
>
> Al,
>
> I have attached 4 photos.
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: "Al oscar873@... [Racal6790GM]" <Racal6790GM@yahoogroups.com>
> To: "Racal6790GM@yahoogroups.com" <Racal6790GM@yahoogroups.com>
> Subject: Re: [Racal6790GM] RA6793A $2000.00 plus shipping
> Date: Sun, 15 Feb 2015 17:28:24 -0800
>
>

2568. Re: RA6790/GM remote / A6A1 noise?

Yahoo group: Racal6790GM
Date: 2015-02-04 16:55:04 UTC
From: n8kom@...
Topic: 2559 Message: 2568

Hi - Yes, I tried a snap on ferrite core at each end and then at both ends of the cable, and I am using shielded cable for the RS-232 lines. I tried connecting the cable shield to the radio chassis directly, and I was thinking about trying an RS-232 opto-isolator.

You are right - it is a bit frustrating to track it down, but I am sure it can be done. I am having trouble spending time with it right now, but I will experiment more when I get some free time.

Thanks-
Steve

2569. 6790 Dead power supply after shorting audio line out

Yahoo group: Racal6790GM
Date: 2015-02-27 02:17:03 UTC
From: aa9il@...
Topic: 2569 Message: 2569

Hello All
I accidently shorted the audio wire coming out of the DB25 plug and the receiver shut down - I checked the power fuse in the line filter and its still good. I saw there is a fuse in the power supply module and I tested that as well and its ok - but the receiver doesnt power on - any suggestions on troubleshooting?
Thanks
Mike
AA9IL

2570. Re: [Racal6790GM] 6790 Dead power supply after shorting audio line out

Yahoo group: Racal6790GM
Date: 2015-02-27 02:48:46 UTC
From: Dan Rae
Topic: 2569 Message: 2570

On 2/26/2015 6:17 PM, aa9il@... [Racal6790GM] wrote:
>
>
> Hello All
> I accidently shorted the audio wire coming out of the DB25 plug and
> the receiver shut down - I checked the power fuse in the line filter
> and its still good. I saw there is a fuse in the power supply module
> and I tested that as well and its ok -
>
The fuse in the clip/inside/ the power supply (not the one in the line filter / IEC connector module) is actually the alternative rating fuse for whichever AC power Voltage range is not in use. Or it should be.

I can't see how shorting out the Loudspeaker output could do more than maybe damage the audio output IC and they're pretty rugged.

Any trouble shooting should start with the power supply voltages and go from there. Does "shut down" mean it's completely dead?

Dan

ac6ao

2571. Re: [Racal6790GM] 6790 Dead power supply after shorting audio line out

Yahoo group: Racal6790GM
Date: 2015-02-27 03:17:09 UTC
From: mike Kana
Topic: 2569 Message: 2571

Hello all - disregard - I decided to do some trouble shooting if there was any power - I feed the audio
out to an audio mixer and a pair of studio monitor speakers.

When I was trying a different receiver power cord to make sure that wasnt bad, I saw the entire power distribution block feeding everything was dead - so I grabbed a different one, plugged in and
the monitors came up, I moved all my power cables to it and life is good. I didnt suspect the
distribution block as it has a circuit breaker and it was not in need of a reset.
So I buttoned everything back up, confirmed some good old shortwave was coming in and decided
its time for a late lunch.
73
Mike
AA9IL

On Thursday, February 26, 2015 8:48 PM, "Dan Rae danrae@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

On 2/26/2015 6:17 PM, aa9il@... [Racal6790GM] wrote:

>
>Hello All
>I accidently shorted the audio wire coming out of the DB25 plug
and the receiver shut down - I checked the power fuse in the line
filter and its still good. I saw there is a fuse in the power
supply module and I tested that as well and its ok -
>
>
The fuse in the clipinside the power supply (not the one in the line filter / IEC connector module) is actually the alternative rating fuse for whichever AC power Voltage range is not in use. Or it should be.

I can't see how shorting out the Loudspeaker output could do more
than maybe damage the audio output IC and they're pretty rugged.

Any trouble shooting should start with the power supply voltages and
go from there. Does "shut down" mean it's completely dead?

Dan

ac6ao

2572. RA6831 operation

Yahoo group: Racal6790GM
Date: 2015-03-22 16:58:07 UTC
From: Tom B
Topic: 2572 Message: 2572

Hello All,

I just picked up a Racal RA6831 which looks like an RA6830 with a touch panel front. It is showing an 1st LO OOL error. I think this is because the battery has gone dead and it wants an external reference. It does not have any control for switching to internal/external reference like the 6830 does. Anybody out there have a manual or could tell me how to switch to internal reference?

Tom Bryan
N3AJA

2573. Re: [Racal6790GM] RA6831 operation

Yahoo group: Racal6790GM
Date: 2015-03-22 17:19:48 UTC
From: FRANCIS CARCIA
Topic: 2572 Message: 2573

Tom,I have a couple different manuals for the RA6830. I wonder if you could send me some pictures of the front and rear panel Also the part numbers of the modules. I don't know what the RA6831 is but maybe I can help you fix it. I also have a few different versions of software for the RA6830 that Gary gave me. I have mounted coin cell battery holders on the CPU board that allow you to replace batteries when they die. Frank WA1GFZ

On Sunday, March 22, 2015 12:58 PM, "Tom B tbryan@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

Hello All,

I just picked up a Racal RA6831 which looks like an RA6830 with a touch panel front. It is showing an 1st LO OOL error. I think this is because the battery has gone dead and it wants an external reference. It does not have any control for switching to internal/external reference like the 6830 does. Anybody out there have a manual or could tell me how to switch to internal reference?

Tom Bryan
N3AJA

2574. Re: [Racal6790GM] RA6831 operation

Yahoo group: Racal6790GM
Date: 2015-03-23 01:37:57 UTC
From: Tom B
Topic: 2572 Message: 2574

Hi Frank,

I have the 6830/JD manual. The 6831 is very similar except for the touch screen front panel. I think the problem is that the lower row touch area is not working. It has a button labeled AUX MENU which I assume will allow you to set the source for the reference. This is similar to the 6830. Anyway, I will send you a some photos in a few days.

What battery type are you using; 2032?

Tom

On 3/22/2015 1:19 PM, FRANCIS CARCIA carcia@... [Racal6790GM] wrote:
>
>
> Tom,
> I have a couple different manuals for the RA6830. I wonder if you
> could send me some pictures of the front and rear panel Also the part
> numbers of the modules. I don't know what the RA6831 is but maybe I
> can help you fix it. I also have a few different versions of software
> for the RA6830 that Gary gave me. I have mounted coin cell battery
> holders on the CPU board that allow you to replace batteries when they
> die. Frank WA1GFZ
>
>
>
> On Sunday, March 22, 2015 12:58 PM, "Tom B tbryan@...
> [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:
>
>
> Hello All,
>
> I just picked up a Racal RA6831 which looks like an RA6830 with a touch
> panel front. It is showing an 1st LO OOL error. I think this is
> because the battery has gone dead and it wants an external reference.
> It does not have any control for switching to internal/external
> reference like the 6830 does. Anybody out there have a manual or could
> tell me how to switch to internal reference?
>
> Tom Bryan
> N3AJA

2575. Re: [Racal6790GM] RA6831 operation

Yahoo group: Racal6790GM
Date: 2015-03-23 02:15:34 UTC
From: FRANCIS CARCIA
Topic: 2572 Message: 2575

hi Tom,Yes I made an adapter for a 2032 socket with a hunk of vector board and bus wire to plug into the three battery holes. Some Racals bring LO signals to the back of the radio and need BNC jumpers to interface them back in. This allows external control. That is why I wanted to see the rear panel. I bet Gary still has some RA6830 front panel assemblies left if you can't repair it. The reference and synthesizer control signals route through the reference module. I would think if the radio is stuck in external reference mode you could feed a signal generator in the back and get it to function. I don't know the default if the battery is dead. The JD manual will tell you how to select modes for loading filters and reference source using LOC/5 and LOC/6 if i remember.BTW the first modification I do to a 6830 is to remove the voltage regulator from the front panel because it runs way too hot. I then mount a LM317 in a TO220 case to the side rail of the chassis so it now runs stone cold. This is a big problem if you have the linear power supply which is much quieter than the switcher but the trade off is the unregulated voltages goes from 8 to 11 volts. That little heat sink is begging for mercy. I have never heard of the 6831. Good Luck,Frank

On Sunday, March 22, 2015 9:38 PM, "Tom B tbryan@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

Hi Frank,

I have the 6830/JD manual. The 6831 is very similar except for the touch screen front panel. I think the problem is that the lower row touch area is not working. It has a button labeled AUX MENU which I assume will allow you to set the source for the reference. This is similar to the 6830. Anyway, I will send you a some photos in a few days.

What battery type are you using; 2032?

Tom

On 3/22/2015 1:19 PM, FRANCIS CARCIA carcia@... [Racal6790GM] wrote:

Tom, I have a couple different manuals for the RA6830. I wonder if you could send me some pictures of the front and rear panel Also the part numbers of the modules. I don't know what the RA6831 is but maybe I can help you fix it. I also have a few different versions of software for the RA6830 that Gary gave me. I have mounted coin cell battery holders on the CPU board that allow you to replace batteries when they die. Frank WA1GFZ

On Sunday, March 22, 2015 12:58 PM, "Tom B tbryan@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

Hello All,

I just picked up a Racal RA6831 which looks like an RA6830 with a touch

panel front. It is showing an 1st LO OOL error. I think this is
because the battery has gone dead and it wants an external reference.
It does not have any control for switching to internal/external
reference like the 6830 does. Anybody out there have a manual or could

tell me how to switch to internal reference?

Tom Bryan
N3AJA

2576. Help: ID shaft encoder

Yahoo group: Racal6790GM
Date: 2015-04-08 02:14:52 UTC
From: Tom B
Topic: 2576 Message: 2576
Attachments: 1 described; binary payloads are missing from this source WARC

Hello All,

I am working on a Racal RA6831 receiver. There is a problem with the shaft encoder. I would like to find a replacement but there are no markings on it except what I think is a date code (8922) and the number 64 on the connector. I have attached a picture. it is small, about one inch in diameter. Could someone tell me who made this thing?

Tom Bryan
N3AJA

2577. Re: [Racal6790GM] Help: ID shaft encoder [1 Attachment]

Yahoo group: Racal6790GM
Date: 2015-04-11 10:44:17 UTC
From: FRANCIS CARCIA
Topic: 2576 Message: 2577

Tom,I bet that any encoder that fits in the space would work. The 4 pins are Power, Ground, I output and Q output. Cubic used one about the same size but had wire leads coming out of it. Good Luck. Frank

On Tuesday, April 7, 2015 10:15 PM, "Tom B tbryan@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

[Attachment(s) from Tom B included below] Hello All,

I am working on a Racal RA6831 receiver. There is a problem with the shaft encoder. I would like to find a replacement but there are no markings on it except what I think is a date code (8922) and the number 64 on the connector. I have attached a picture. it is small, about one inch in diameter. Could someone tell me who made this thing?

Tom Bryan
N3AJA

2578. Re: [Racal6790GM] Help: ID shaft encoder

Yahoo group: Racal6790GM
Date: 2015-04-11 23:53:43 UTC
From: Tom B
Topic: 2576 Message: 2578

Hi Frank,

I think you are correct. The only concern I have is the PPR. I need to do some testing on the one I have but there is a 64 stamped on it. I think this is the PPR rating. I am not sure what will happen if I used a different type.
Mouser has one that looks like it might work.

Thanks,

Tom

On 4/11/2015 6:44 AM, FRANCIS CARCIA carcia@... [Racal6790GM] wrote:
>
>
> Tom,
> I bet that any encoder that fits in the space would work. The 4 pins
> are Power, Ground, I output and Q output. Cubic used one about the
> same size but had wire leads coming out of it. Good Luck. Frank
>
>
>
> On Tuesday, April 7, 2015 10:15 PM, "Tom B tbryan@...
> [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:
>
>
> [Attachment(s)
> <https://us-mg205.mail.yahoo.com/neo/launch?.partner=sbc&.rand=c1dqk1r726vqu#TopText>
> from Tom B included below]
> Hello All,
>
> I am working on a Racal RA6831 receiver. There is a problem with the
> shaft encoder. I would like to find a replacement but there are no
> markings on it except what I think is a date code (8922) and the number
> 64 on the connector. I have attached a picture. it is small, about
> one inch in diameter. Could someone tell me who made this thing?
>
> Tom Bryan
> N3AJA
>
>

2579. Re: [Racal6790GM] Help: ID shaft encoder

Yahoo group: Racal6790GM
Date: 2015-04-12 02:16:11 UTC
From: FRANCIS CARCIA
Topic: 2576 Message: 2579

Tom,I bet you are correct on the PPR. I don't think it number is all that critical as long as you don't go with something that puts out pulses too fast. I bet only one output channel is bad and you could measure the one working PPR with a DVM if you turn it slow. I would like to see the front panel of that radio and also know the version of software loaded into the proms on the CPU module. I have few different versions. Some of them tune down to 0Hz..Frank

On Saturday, April 11, 2015 7:53 PM, "Tom B tbryan@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

  Hi Frank,

I think you are correct. The only concern I have is the PPR. I need to do some testing on the one I have but there is a 64 stamped on it. I think this is the PPR rating. I am not sure what will happen if I used a different type.
Mouser has one that looks like it might work.

Thanks,

Tom

On 4/11/2015 6:44 AM, FRANCIS CARCIA carcia@... [Racal6790GM] wrote:

Tom, I bet that any encoder that fits in the space would work. The 4 pins are Power, Ground, I output and Q output. Cubic used one about the same size but had wire leads coming out of it. Good Luck. Frank

On Tuesday, April 7, 2015 10:15 PM, "Tom B tbryan@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

  [Attachment(s) from Tom B included below] Hello All,

I am working on a Racal RA6831 receiver. There is a problem with the
shaft encoder. I would like to find a replacement but there are no
markings on it except what I think is a date code (8922) and the number
64 on the connector. I have attached a picture. it is small, about
one inch in diameter. Could someone tell me who made this thing?

Tom Bryan
N3AJA

2580. 1600012 Firmware?

Yahoo group: Racal6790GM
Date: 2015-05-01 17:44:58 UTC
From: Dan Rae
Topic: 2580 Message: 2580

While sorting out a bunch of eproms to stick on eBay I found a set marked REGM01F01 1600012 and have no idea where they came from. They seem to be similar to the A09666 set in a basic receiver without remote interface in that they tune below 500 kHz and have the "standard" 1Hz, 30 Hz and 1 kHz tuning steps, so any differences may be in the remote side of things. They don't appear in Gary's list of configurations. Anybody have any idea?

Dan - ac6ao

2581. Re: [Racal6790GM] 1600012 Firmware?

Yahoo group: Racal6790GM
Date: 2015-05-02 03:45:50 UTC
From: gewingerd@netzero.net
Topic: 2580 Message: 2581
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2582. Re: [Racal6790GM] 1600012 Firmware?

Yahoo group: Racal6790GM
Date: 2015-05-02 14:14:57 UTC
From: Dan Rae
Topic: 2580 Message: 2582

On 5/1/2015 8:45 PM, 'gewingerd@...' gewingerd@...
[Racal6790GM] wrote:
> Dan,
>
> Looks like the eproms for the low frequency option.
>
Thanks Gary, but I said as much in my original posting. In a receiver with no interface card they behave exactly like the A09666 firmware set which I have always assumed was the "normal" VLF firmware, since my GM with the VLF option came with that set fitted. But these differ in some way that is not obvious, the check sums are different, so it might be something to do with the remote functions which I'm not in a position to check.

Best wishes,

Dan

2583. Re: [Racal6790GM] 1600012 Firmware?

Yahoo group: Racal6790GM
Date: 2015-05-02 14:56:40 UTC
From: Dan Rae
Topic: 2580 Message: 2583

I'm reliably informed they are for the GPIB remote interface card / LF extension.

Thanks Phill!

Dan

2584. [Racal6790GM] Firmware?

Yahoo group: Racal6790GM
Date: 2015-05-02 16:30:08 UTC
From: W5DTW
Topic: 2580 Message: 2584

Speaking of firmware, can someone send me the .bin files for the LF firmware? I thought I had it but cannot find it.
Craig

2585. Rack handles for RACAL RA6790/GM

Yahoo group: Racal6790GM
Date: 2015-05-08 12:10:54 UTC
From: cert4649@...
Topic: 2585 Message: 2585

Greetings to All List Members,

I am looking for rack handles for RACAL RA6790/GM.

So if any member can assist I would be grateful if they contact me offline.

Thanks & Best Regards to All,

akio

2586. Fault light

Yahoo group: Racal6790GM
Date: 2015-05-14 09:07:28 UTC
From: mark.weedon@...
Topic: 2586 Message: 2586

Hi,
My Racal has developed a fault and the front panel fault light is lit. I am confused as the light is GREEN and the manual says the fault light is RED. The circuit diagram shows only one LED.
Has the red LED been swapped for a green one and I have light warning me of a fault?

Or does green light mean OK?

The problem is rough sounding audio. CW has weak musical note but sound a bit like the set is in AM mode, SSB is very poorly resolved and again sounds as though I have it on AM. RF gain needs to fully up. I listened to the 455kHz IF from J2 on another RX and it sounds just like what is being delivered form the Racal speaker. This eliminates the detectors and the audio amp.
No BITE errors.
Frequency is correct.

Cheers

Mark
VK2WU

2587. Re: [Racal6790GM] Fault light

Yahoo group: Racal6790GM
Date: 2015-05-14 22:50:49 UTC
From: Dan Rae
Topic: 2586 Message: 2587

On 5/14/2015 2:07 AM, mark.weedon@... [Racal6790GM] wrote:
>
>
> Hi,
> My Racal has developed a fault and the front panel fault light is
> lit. I am confused as the light is GREEN and the manual says the
> fault light is RED. The circuit diagram shows only one LED.
> Has the red LED been swapped for a green one and I have light warning
> me of a fault?
I can't think why, but yes, it does seem so. They are easy to break if
you remove the front panel, so that might be why you have the wrong colour.
>
> Or does green light mean OK?
No. There are three separate fault LEDs inside behind the panel, I
can't remember which is which off hand but have posted about them
before, here. That would give you an idea of where to start.
>
> The problem is rough sounding audio. CW has weak musical note but
> sound a bit like the set is in AM mode, SSB is very poorly resolved
> and again sounds as though I have it on AM. RF gain needs to fully
> up. I listened to the 455kHz IF from J2 on another RX and it sounds
> just like what is being delivered form the Racal speaker. This
> eliminates the detectors and the audio amp.
> No BITE errors.
So much for BITE :^)
>
> Frequency is correct.
>
>
Mark it sounds like one of the synth loops is bad, hard to tell which
from your description, but if you can see which fault LED is on inside
that should help...

2588. Re: [Racal6790GM] Fault light

Yahoo group: Racal6790GM
Date: 2015-05-14 23:11:41 UTC
From: Dan Rae
Topic: 2586 Message: 2588

Mark it sounds like one of the synth loops is bad, hard to tell which from your description, but if you can see which fault LED is on inside that should help...

I pressed send by mistake.

You can tell which is the BFO loop fault LED because it comes on when the BFO is off in AM mode. One is a spare and does nothing, the other two would be the 1st LO loop and the other the 2nd LO. In a working Rx you can identify which is which by removing the reference frequency inputs.

73 - Dan - ac6ao

2589. Re: Fault light

Yahoo group: Racal6790GM
Date: 2015-05-15 12:46:40 UTC
From: mark.weedon@...
Topic: 2586 Message: 2589

An update:
I checked an AM station on AM mode and excellent reception. That narrows the list of synth loops to look at this weekend.
The other bit of information and the main reason for the update is the colour of the fault light. It was shining green and when I turned the set it momentarily flashed RED. Repeated the process and got it again.
The LCD backlighting is green LEDs. Whoever modded the backligts must have also modded the fault light to green for OK and red for not OK. I had the lid off for that mandatory check when I first acquired the set but did not take the front panel off.
I have had no problems so there has been no need to open it since purchase.
Possibly I do not have a fault light.

Cheers

Mark

2590. Re: Fault light

Yahoo group: Racal6790GM
Date: 2015-05-25 02:05:31 UTC
From: mark.weedon@...
Topic: 2586 Message: 2590

Hi,
my Racal is working again.
The problem was an easy one to finally fix:the 5.2 volt line for the ECL logic was low.
I had measured the voltage at 5.12V early in the diagnosis process but I had decided that while it was low it was OK.
The first LO was quite noisy but on frequency. The 'on frequency' part made me think that all was well with the dividers. I could not see any noise on the VCO control line, power supplies were clean.
I was quite frustrated, I could see the fault but not the cause.
I had the LO signal displayed on the spectrum analyser and had decided to finish up for the evening. I adjusted the 5.2 Volt line not as a potential fix but just because I had it open. When I looked at the spectrum analyser the signal had cleaned up.
Checking with a RX on the LO frequency gave a pure note.

The racal is now back in the rack. I have learnt that ECL is more choosy about its voltages than TTL.

The fault light that generated my original question to the group is GREEN for OK and RED for NOT OK. It is a two wire LED that looks like original equipment. If I remove the reference line form the A7 board the light goes from green to red and with the reference plugged in back to green.

Cheers

Mark
VK2WU

2591. Re: [Racal6790GM] Re: Fault light

Yahoo group: Racal6790GM
Date: 2015-05-25 02:41:34 UTC
From: gewingerd@netzero.net
Topic: 2586 Message: 2591
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2592. wrong display RA6790/GM

Yahoo group: Racal6790GM
Date: 2015-05-27 16:51:03 UTC
From: f6cnk@...
Topic: 2592 Message: 2592

Hello,
I have a glitch in my Racal 6790, everything works but when I press a button, or if I move the vfo the display adds 40,000 Mhz.
On 3.600 MHz, it displays 43.600 Mhz, on 14.100 Mhz ... 54,100 Mhz !!! .
And everything works on 3.600 MHz or 14.100 Mhz!!!
This problem occurs in hot or cold without any logic, and sometimes there is not this display error !!!!

What can I do?
73 s de Chris F6CNK
La Rochelle France

2593. Re: [Racal6790GM] wrong display RA6790/GM

Yahoo group: Racal6790GM
Date: 2015-05-27 17:30:35 UTC
From: gewingerd@netzero.net
Topic: 2592 Message: 2593
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2594. Re: [Racal6790GM] wrong display RA6790/GM

Yahoo group: Racal6790GM
Date: 2015-05-27 17:45:20 UTC
From: Dan Rae
Topic: 2592 Message: 2594

On 5/27/2015 9:51 AM, f6cnk@... [Racal6790GM] wrote:
>
>
> Hello,
> I have a glitch in my Racal 6790, everything works but when I press a
> button, or if I move the vfo the display adds 40,000 Mhz.
> On 3.600 MHz, it displays 43.600 Mhz, on 14.100 Mhz ... 54,100 Mhz !!! .
Chris I would check the 4056 display driver for that digit. U16
perhaps? It can be looked at with a Voltmeter easily enough. I have
seen them do odd things.

73 - Dan

ac6ao / g3ncr

2595. Re: [Racal6790GM] wrong display RA6790/GM

Yahoo group: Racal6790GM
Date: 2015-05-28 15:33:27 UTC
From: f6cnk@...
Topic: 2592 Message: 2595

Hello,
thank you for answers.
I changed U16 and everything is OK.
73 s Chris F6CNK

2596. 16 khz IF filter reading narrow after BITE

Yahoo group: Racal6790GM
Date: 2015-06-04 02:40:42 UTC
From: n8kom@...
Topic: 2596 Message: 2596

While doing some experimenting with my 6790/GM - I noticed that after the BITE test my 16 khz filter would always come back between 6 and 7 khz. I never paid much attention to this because I was forcing the IF filter BW numbers for the display, and just assigning that filter to 16 khz. Doing some reading here in prior posts, some folks mentioned that a 16 khz filter reading narrow on the BITE test may be a sign that the VLF roofing filters are installed on A2 and A3 boards. I do not have VLF filters / boards, both the A2 and A3 filters are marked 20 Khz. I jumpered out one of the IF filter slots and the BITE still reports back 7 to 8 Khz for the jumpered filter slot. I guess I was expecting a wider BITE calculated value for the 16 khz filter and the jumpered slot. Everything appears to be working well with the radio, but this just seemed odd.

Any thoughts on this one?

Thanks -
Steve

2597. Re: [Racal6790GM] 16 khz IF filter reading narrow after BITE

Yahoo group: Racal6790GM
Date: 2015-06-04 15:16:42 UTC
From: Kevin Alfred Strom
Topic: 2596 Message: 2597

On 6/3/2015 10:40 PM, n8kom@... [Racal6790GM] wrote:
>
>
> While doing some experimenting with my 6790/GM - I noticed that
> after the BITE test my 16 khz filter would always come back between
> 6 and 7 khz. I never paid much attention to this because I was
> forcing the IF filter BW numbers for the display, and just assigning
> that filter to 16 khz. Doing some reading here in prior posts, some
> folks mentioned that a 16 khz filter reading narrow on the BITE test
> may be a sign that the VLF roofing filters are installed on A2 and
> A3 boards. I do not have VLF filters / boards, both the A2 and A3
> filters are marked 20 Khz. I jumpered out one of the IF filter
> slots and the BITE still reports back 7 to 8 Khz for the jumpered
> filter slot. I guess I was expecting a wider BITE calculated value
> for the 16 khz filter and the jumpered slot. Everything appears to
> be working well with the radio, but this just seemed odd.
>
>
> Any thoughts on this one?
[...]

Perhaps the filter has gone bad and has bumps in its response that
are affecting the auto-bandwidth-detect software which is now
showing a 3-dB or 6-dB point far less than the nominal 16 kHz.

You could confirm or disprove this just by slowly tuning across a
strong, steady local carrier in the CW mode, gain down and AGC off,
and noting whether there are any audible peaks in the filter's response.

All the best,

Kevin.

2598. Re: 16 khz IF filter reading narrow after BITE

Yahoo group: Racal6790GM
Date: 2015-06-05 16:01:16 UTC
From: n8kom@...
Topic: 2596 Message: 2598

Thanks - I can try that and try to listen more carefully or critically. I may have some time this weekend to explore this further.

Regards,
Steve

2599. Three RA6790/GM and extras for pickup NW Oregon

Yahoo group: Racal6790GM
Date: 2015-06-14 15:24:42 UTC
From: RF PRECHTL K7DFW
Topic: 2599 Message: 2599

I have lost interest and need the space.

One is perfect.

One has a noisy diode.

One hangs up in BITE.

All very nice condx.

One of the three has ISB (gave $1023 for that one alone).

Box of extra ECBs go with them.

All or none.

$2000 pick up NW Oregon.

Rolynn

Near Rainier and Clatskanie across the river from Longview, WA.

2600. CORRECTION: FOUR RA6790/GM (Three RA6790/GM and extras for pickup NW Oregon)

Yahoo group: Racal6790GM
Date: 2015-06-14 20:45:05 UTC
From: RF PRECHTL K7DFW
Topic: 2600 Message: 2600

I found another receiver for a total of four for the price. This one is a project radio. Looks
to be missing the knob and encoder shaft, maybe more.

Also counted the spare ECBs and there are six total. A2, A3, A4, A6 and A7.

==========

I have lost interest and need the space.

One is perfect.

One has a noisy diode.

One hangs up in BITE.

All very nice condx.

One of the three has ISB (gave $1023 for that one alone).

Box of extra ECBs go with them.

All or none.

$2000 pick up NW Oregon.

Rolynn

Near Rainier and Clatskanie across the river from Longview, WA.

2601. Re: 16 khz IF filter reading narrow after BITE

Yahoo group: Racal6790GM
Date: 2015-06-08 12:07:47 UTC
From: n8kom@...
Topic: 2596 Message: 2601

As a follow-up - I did an alignment on the A3 and A4 boards and the 16 kHz filter bandwidth is now reported by the BITE as 19 kHz versus around 8 kHz. The only obvious misalignment was on the A3 board - someone had the A3 IF gain turned up higher than expected. All seems good now!

Regards -
Steve

2602. Re: [Racal6790GM] Re: 16 khz IF filter reading narrow after BITE

Yahoo group: Racal6790GM
Date: 2015-06-22 12:36:26 UTC
From: Kevin Alfred Strom
Topic: 2596 Message: 2602

On 6/8/2015 8:07 AM, n8kom@... [Racal6790GM] wrote:
>
>
> As a follow-up - I did an alignment on the A3 and A4 boards and the
> 16 kHz filter bandwidth is now reported by the BITE as 19 kHz versus
> around 8 kHz. The only obvious misalignment was on the A3 board -
> someone had the A3 IF gain turned up higher than expected.
> All seems good now!
>
> Regards -
> Steve
[...]

Great; glad you were able to fix it.

Even though it is a vintage design after all these decades, the 6790
is such a good design that I am able to use it to critically
evaluate the transmitted signal from my SDR.

With my best,

Kevin, WB4AIO.

2603. Four RA6790/GM and extras for pickup NW Oregon

Yahoo group: Racal6790GM
Date: 2015-06-28 03:42:51 UTC
From: RF PRECHTL K7DFW
Topic: 2603 Message: 2603

I have lost interest and need the space.

One is perfect.

One has a noisy diode.

One hangs up in BITE.

One is missing the encoder knob, shaft and probably the encoder.

All very nice condx.

One of the three has ISB (gave $1023 for that one alone).

Box of extra ECBs go with them, six total. A2, A3, A4, A6 and A7.

All or none.

$1600 pick up NW Oregon.

Rolynn

Near Rainier and Clatskanie across the river from Longview, WA.

2604. 6790/gm new to me

Yahoo group: Racal6790GM
Date: 2015-07-12 14:36:51 UTC
From: n4dkd@...
Topic: 2604 Message: 2604

I just acquired a new to me Racal 6790/GM. It is a nice receiver that appears to be working properly.
The frequency seems to be off.

test signal racal freq when tuned .
14.175.00 14.167.00 8 KZ off

15.000.00 15.008.00

Below 10 mhz

7.251.00 7.251.80 800hz

3965.00 3965.80

I have downloaded the manual and will studying it.
Anyone had this problem ?

Thanks

Brian

N4DKD

2605. Re: [Racal6790GM] 6790/gm new to me

Yahoo group: Racal6790GM
Date: 2015-07-12 16:05:25 UTC
From: gewingerd@netzero.net
Topic: 2604 Message: 2605
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2606. Re: [Racal6790GM] 6790/gm new to me

Yahoo group: Racal6790GM
Date: 2015-07-12 18:10:12 UTC
From: Brian
Topic: 2604 Message: 2606

Thanks Gary ,

I am getting familiar with the manual and operations. I did run BITE
but did not receive any errors . I'll check the freq , FF and the
registers later today if I get time.

Thanks

73

Brian

On Sun, 2015-07-12 at 16:05 +0000, 'gewingerd@...'
gewingerd@netzero.net [Racal6790GM] wrote:

>
>
> This is what it might be.
> A7 card off frequency, low by 311 KHz A7U18 (CD40174BE) & A7U13
> (CD4094BE) defective. Same card Error 23 on BITE, 1KHz bit location
> bad, A7U11 (CD4094BE) defective.
> Important note on the A7 card:
> A7U8 1 HZ BIT LSB
> A7U9 10HZ BIT
> A7U10 100HZ BIT
> A7U11 1KHZ BIT
> A7U12 10KHZ BIT
> A7U13 100KHZ BIT
>
> Thanks,
> Gary
>
> Please note: message attached
>
> From: "n4dkd@bellsouth.net [Racal6790GM]"
> <Racal6790GM@yahoogroups.com>
> To: Racal6790GM@yahoogroups.com
> Subject: [Racal6790GM] 6790/gm new to me
> Date: 12 Jul 2015 07:36:51 -0700
>
>
>
>
>
>
>
> email message attachment (gm new to me)

>
> > -------- Forwarded Message --------
> > From: n4dkd@... [Racal6790GM]
> > <Racal6790GM@yahoogroups.com>
> > Reply-to: Racal6790GM@yahoogroups.com
> > To: Racal6790GM@yahoogroups.com
> > Subject: [Racal6790GM] 6790/gm new to me
> > Date: 12 Jul 2015 07:36:51 -0700
> >
> >
> >
> > I just acquired a new to me Racal 6790/GM. It is a nice receiver
> > that appears to be working properly.
> >
> > The frequency seems to be off.
> >
> >
> > test signal racal freq when tuned .
> >
> > 14.175.00 14.167.00 8 KZ off
> >
> >
> > 15.000.00 15.008.00
> >
> >
> > Below 10 mhz
> >
> >
> >
> > 7.251.00 7.251.80 800hz
> >
> >
> > 3965.00 3965.80
> >
> >
> >
> >
> > I have downloaded the manual and will studying it.
> >
> > Anyone had this problem ?
> >
> >
> > Thanks
> >
> >
> >
> > Brian
> >
> >
> >

> > N4DKD
> >
> >

2607. Any thoughts....?

Yahoo group: Racal6790GM
Date: 2015-07-29 19:08:21 UTC
From: ka9p@...
Topic: 2607 Message: 2607

My 6790 is starting to make me a bit, or maybe a byte, crazy.

Most of the time I turn it on, I get an all 8's display, but the 8's clear when I run BITE, the radio passes BITE, and the display there after performs normally.

The only other issue noted with the receiver is a fault light when activating CW, and the BFO offset consistently reads L.LH. The fault light clears and the radio functions normally when switching into any other mode out of CW.

Any thoughts? Thanks. Scott

2608. Looking for a VK I sold some parts to a few years ago...and some chips available

Yahoo group: Racal6790GM
Date: 2015-07-29 19:16:01 UTC
From: ka9p@...
Topic: 2608 Message: 2608

A few years ago I sent a VK on the list some 6790 parts I had from a swap, and promised that I would send along a few chips and things if I if found the plastic parts bins I'd acquired from a repair depot.

Well, I've just moved and found the &^$&^$ bins years later, with a lot of chip and caps stock, and wanted to make good on that promise if possible.

If you're out there let me know, and what if anything you're currently in need of :) It's been a few computers ago and can't find any of our correspondence.

And if anyone else is looking for chips, I might have them, there's not a lot of stock, usually between about 3 and 10 of the chips, but happy to look if you have a need. I also have a bin of 10 or 15 dead boards (typically an exploded tant or similar) that I need to unload in the housecleaning if anyone needs anything like that for parts or to repair or fiddle with.

Thanks, Scott

2609. RE: [Racal6790GM] Looking for a VK I sold some parts to a few years ago...and some chips available

Yahoo group: Racal6790GM
Date: 2015-07-30 07:02:49 UTC
From: Noel Lipscombe
Topic: 2608 Message: 2609

Hi Scott,

It sounds like me, at the time you sent me some A6A1 Async boards to get the comms with my computer going.

I have 2 6790's which are performing well at the moment but I have an A9 board I would like to repair but the chips are hard to get specially in small quantities.

My shopping list is CD 4014, CD 4051, CD 4056, CD4066, CD4099 & CD 4503 and as they are all used multiple times a couple of each would be great.

Also need some transistors for a !st mixer board, 2N4126, 2N3868, 2N 5160 & 2N3866.

I don't have a spare A4 or First Mixer board and would appreciate those if available.

I don't expect all the above and will naturally pay all packing and shipping costs for what you can spare.

It was good to hear from you again, it's amazing how the years fly by in retirement.

73 and thanks for remembering me.

Noel

VK2A NJ

20 Hillpine Avenue

Kogarah

NSW 2217

Australia

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Thursday, 30 July 2015 5:16 AM
To: racal6790gm@yahoogroups.com
Subject: [Racal6790GM] Looking for a VK I sold some parts to a few years ago...and some chips available

A few years ago I sent a VK on the list some 6790 parts I had from a swap, and promised that I would send along a few chips and things if I if found the plastic parts bins I'd acquired from a repair depot.

Well, I've just moved and found the &^$&^$ bins years later, with a lot of chip and caps stock, and wanted to make good on that promise if possible.

If you're out there let me know, and what if anything you're currently in need of :) It's been a few computers ago and can't find any of our correspondence.

And if anyone else is looking for chips, I might have them, there's not a lot of stock, usually between about 3 and 10 of the chips, but happy to look if you have a need. I also have a bin of 10 or 15 dead boards (typically an exploded tant or similar) that I need to unload in the housecleaning if anyone needs anything like that for parts or to repair or fiddle with.

Thanks, Scott

2610. RE: [Racal6790GM] Looking for a VK I sold some parts to a few years ago...and some chips available

Yahoo group: Racal6790GM
Date: 2015-07-29 21:51:53 UTC
From: Leigh Sedgwick
Topic: 2608 Message: 2610
Attachments: 2 described; binary payloads are missing from this source WARC

I'd be interested in a A4 board to help get my other one functional.

Mike

K7PI

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Wednesday, July 29, 2015 12:16
To: racal6790gm@yahoogroups.com
Subject: [Racal6790GM] Looking for a VK I sold some parts to a few years ago...and some chips available

A few years ago I sent a VK on the list some 6790 parts I had from a swap, and promised that I would send along a few chips and things if I if found the plastic parts bins I'd acquired from a repair depot.

Well, I've just moved and found the &^$&^$ bins years later, with a lot of chip and caps stock, and wanted to make good on that promise if possible.

If you're out there let me know, and what if anything you're currently in need of :) It's been a few computers ago and can't find any of our correspondence.

And if anyone else is looking for chips, I might have them, there's not a lot of stock, usually between about 3 and 10 of the chips, but happy to look if you have a need. I also have a bin of 10 or 15 dead boards (typically an exploded tant or similar) that I need to unload in the housecleaning if anyone needs anything like that for parts or to repair or fiddle with.

Thanks, Scott

2611. Four RA6790/GM and extras for $1200 - pickup only NW Oregon

Yahoo group: Racal6790GM
Date: 2015-08-26 13:29:32 UTC
From: RF PRECHTL K7DFW
Topic: 2611 Message: 2611

I have lost interest and need the space.

One is perfect.

One has a noisy diode.

One hangs up in BITE.

One is missing the encoder knob, shaft and probably the encoder.

All very nice condx.

One of the three has ISB (gave $1023 for that one alone).

Box of extra ECBs go with them, six total. A2, A3, A4, A6 and A7.

All or none.

$1200 pick up NW Oregon.

Rolynn

Near Rainier and Clatskanie across the river from Longview, WA.

2612. Re: Four RA6790/GM and extras for $1200 - pickup only NW Oregon

Yahoo group: Racal6790GM
Date: 2015-09-01 21:44:30 UTC
From: chucka@...
Topic: 2611 Message: 2612

Is this Racal equipment still for sale?

Chuck 608-825-2055

chucka@msicems.com

2613. 6790/GM problem

Yahoo group: Racal6790GM
Date: 2015-09-05 11:28:59 UTC
From: clansman2011@...
Topic: 2613 Message: 2613

Hello Group:

Can I tap the collective wisdom of the group?
Most times on power on my receiver displays nonsense on the frequency readout and very little on the mode display, and is unresponsive to control inputs. The fault light is on. Sometimes on power up the mode display seems OK and responds to inputs from the usb/lsb/am and agc buttons. Usually "lock" is displayed and cannot be removed. Sometimes "lock" is not displayed but moving the manual tuning knob causes "lock" to come on. The frequency display is again nonsense.
To me this suggests a fault on the A6A2 board as everything is so erratic.
Any thoughts, or suggestions on board repair/replacement?

Regards: de John VK2ZJF.

2614. Re: [Racal6790GM] 6790/GM problem

Yahoo group: Racal6790GM
Date: 2015-09-05 14:44:41 UTC
From: Casy_ch
Topic: 2613 Message: 2614

Hi John

By the way have your measured the backup battery? Should you have to
replace it, be very careful as the pcb tracks have an *easy **tendency*
to lift themselves off the board when desoldering/soldering.

73 de Jean-Claude, HB3YDH

Am 05.09.2015 um 13:28 schrieb clansman2011@... [Racal6790GM]:
>
> Hello Group:
>
> Can I tap the collective wisdom of the group?
> Most times on power on my receiver displays nonsense on the
> frequency readout and very little on the mode display, and is
> unresponsive to control inputs. The fault light is on.
> Sometimes on power up the mode display seems OK and responds to
> inputs from the usb/lsb/am and agc buttons. Usually "lock" is
> displayed and cannot be removed. Sometimes "lock" is not displayed but
> moving the manual tuning knob causes "lock" to come on. The frequency
> display is again nonsense.
> To me this suggests a fault on the A6A2 board as everything is so
> erratic.
> Any thoughts, or suggestions on board repair/replacement?
>
> Regards: de John VK2ZJF.
>
>
>

2615. Gary Wingerd email

Yahoo group: Racal6790GM
Date: 2015-09-10 08:27:17 UTC
From: clansman2011@...
Topic: 2615 Message: 2615

Hi:

Does anybody have a current email address for Gary? Gary himself?

Regards: John Foster.

2616. Re: [Racal6790GM] Gary Wingerd email

Yahoo group: Racal6790GM
Date: 2015-09-10 09:26:25 UTC
From: gewingerd@netzero.net
Topic: 2615 Message: 2616
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2617. Re: [Racal6790GM] Gary Wingerd email

Yahoo group: Racal6790GM
Date: 2015-09-11 05:19:59 UTC
From: clansman2011@...
Topic: 2615 Message: 2617

Nope does not work!

2618. A4 Board schematic

Yahoo group: Racal6790GM
Date: 2015-09-27 09:34:25 UTC
From: tannebri1@...
Topic: 2618 Message: 2618

Has anyone got a schematic of the A4 board the 15v rail keeps blowing.

Thanks Brian

2619. Re: A4 Board schematic

Yahoo group: Racal6790GM
Date: 2015-09-27 16:02:56 UTC
From: tannebri1@...
Topic: 2618 Message: 2619

Hi All

Sorted the 15V rail but getting no audio O/P every thing is okay up till the LM1877 is there a schematic of the audio section.

Tacked a pc speaker amp to the input of the LN1877 and the radio is working.

Brian G6HUI

2620. Re: [Racal6790GM] Re: A4 Board schematic

Yahoo group: Racal6790GM
Date: 2015-09-29 16:17:07 UTC
From: gewingerd@netzero.net
Topic: 2618 Message: 2620
Attachments: 5 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2621. Re: [Racal6790GM] Re: A4 Board schematic

Yahoo group: Racal6790GM
Date: 2015-09-30 20:16:45 UTC
From: tannebri1@...
Topic: 2618 Message: 2621

Thank You Gary

Ive got the audio working it was the audio amp IC. Before I got it fixed I used an external Amplifier and the Audio was great but now using the internal amp the audio is rubbish with digital Buzz and distortion. How good was the audio on the internal speaker I might be expecting to much from it.

Brian

2622. Re: [Racal6790GM] Re: A4 Board schematic

Yahoo group: Racal6790GM
Date: 2015-10-01 04:35:09 UTC
From: gewingerd@netzero.net
Topic: 2618 Message: 2622
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2623. 6790 on Longwave

Yahoo group: Racal6790GM
Date: 2015-10-03 15:03:13 UTC
From: David Stinson
Topic: 2618 Message: 2623

Please excuse my ignorance.
If I'm DXing aero NDBs below 500 KC with my set,
how is it different from those I see listed as ".5-30 MC?"

2624. Re: [Racal6790GM] 6790 on Longwave

Yahoo group: Racal6790GM
Date: 2015-10-07 18:03:05 UTC
From: LucidSound
Topic: 2618 Message: 2624

Many receivers are quoted as covering 0.5 – 30 MHz but will actually tune lower than that. The trade-off is reduced performance due to phase noise from the local oscillators or in some cases, like the JRC, noise from the internal frequency display. By contrast, a Racal 1972 will perform well right down to 10kHz.

From: mailto:Racal6790GM@yahoogroups.com
Sent: Saturday, October 03, 2015 4:03 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790 on Longwave

Please excuse my ignorance.
If I'm DXing aero NDBs below 500 KC with my set,
how is it different from those I see listed as ".5-30 MC?"

2625. Re: [Racal6790GM] 6790 on Longwave

Yahoo group: Racal6790GM
Date: 2015-10-07 18:13:19 UTC
From: gewingerd@netzero.net
Topic: 2618 Message: 2625
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2626. Possible A7 board issue..Suitable Tantalum replacements?

Yahoo group: Racal6790GM
Date: 2015-10-14 22:31:37 UTC
From: mpresley@...
Topic: 2626 Message: 2626

Recently got a 6790GM and recent BITE returns error code 01, poss A7 issue.
Would it be worthwhile to shotgun replace the 22 or so Tants on this board, and if so, what is the favored current replacement type/series?
I believe that the Polymer/Aluminum caps are suggested as good replacements ??
Thoughts?

Mark Presley

2627. RA1792 Parts Wanted

Yahoo group: Racal6790GM
Date: 2015-11-19 18:29:37 UTC
From: LucidSound
Topic: 2618 Message: 2627

Hi,

Currently restoring a pair of Racal RA1792 receivers and I’m in need of the following parts to help me complete them:

1. A 1st LO card – I have a total of 3 cards here, but two of them defy all attempts to repair them.

2. Two button switches (the switch part itself) for the front panel key pad.

Any help much appreciated!

Thanks,

Keith.

.

2628. Re: [Racal6790GM] RA1792 Parts Wanted

Yahoo group: Racal6790GM
Date: 2015-11-19 18:58:50 UTC
From: Dan Rae
Topic: 2618 Message: 2628

On 11/19/2015 10:29 AM, 'LucidSound' lucidsound@... [Racal6790GM]
wrote:
>
>
> Hi,
> Currently restoring a pair of Racal RA1792 receivers and I?m in need
> of the following parts to help me complete them:
> 1. A 1st LO card ? I have a total of 3 cards here, but two of them
> defy all attempts to repair them.
Keith,

There are two or even three different versions of these and they aren't
interchangeable. LSI and not LSI to start with.

If you are actually missing switches then yes, but otherwise they can be
fixed with a new reed switch.

Dan

ac6ao / g3ncr

2629. Re: [Racal6790GM] RA1792 Parts Wanted

Yahoo group: Racal6790GM
Date: 2015-11-19 19:02:16 UTC
From: LucidSound
Topic: 2618 Message: 2629

Hi Dan,

OK thanks – I'm after the first version of the 1st LO card, non-LSI.

Good tip about the key switches, I'll look into that.

Cheers,

Keith.

From: mailto:Racal6790GM@yahoogroups.com
Sent: Thursday, November 19, 2015 6:58 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] RA1792 Parts Wanted

On 11/19/2015 10:29 AM, 'LucidSound' lucidsound@... [Racal6790GM] wrote:

Hi,

Currently restoring a pair of Racal RA1792 receivers and I'm in need of the following parts to help me complete them:

1. A 1st LO card – I have a total of 3 cards here, but two of them defy all attempts to repair them.
Keith,

There are two or even three different versions of these and they aren't interchangeable. LSI and not LSI to start with.

If you are actually missing switches then yes, but otherwise they can be fixed with a new reed switch.

Dan

ac6ao / g3ncr

2630. W6GER's Control Program

Yahoo group: Racal6790GM
Date: 2015-11-20 02:40:30 UTC
From: mpresley@...
Topic: 2630 Message: 2630

I've been checking out this control program for the 6790GM, and wonder if anyone else has used this and could help me out with connections to my PC?

Thanks!

Mark

2631. Re: [Racal6790GM] W6GER's Control Program

Yahoo group: Racal6790GM
Date: 2015-11-20 12:14:29 UTC
From: Raymond Boute
Topic: 2630 Message: 2631

Dear Mark,

At 03:40 2015-11-20, you wrote:
>I've been checking out this control program for the 6790GM, and
>wonder if anyone else has used this and could help me out with
>connections to my PC?

I used it long ago, and it worked. Feel free to fire away with questions.

BTW, I wrote my own programs for a RA6775 since it has no front
panel. These programs are much fancier: they include an analog
frequency dial on the screen, passband tuning and the possibility to
use a real USB knob (PowerMate or Shuttle) for tuning. Like a real
receiver, a real control program has knobs!
If you're interested, we can also talk about that, since
adaptation for the RA6790GM is possible.

With best regards,

Raymond

2632. Re: [Racal6790GM] W6GER's Control Program

Yahoo group: Racal6790GM
Date: 2015-11-20 19:54:30 UTC
From: gewingerd@netzero.net
Topic: 2630 Message: 2632
Attachments: 4 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2633. Re: [Racal6790GM] W6GER's Control Program

Yahoo group: Racal6790GM
Date: 2015-11-20 15:08:14 UTC
From: mpresley@...
Topic: 2630 Message: 2633

Great, Raymond.....I'd just like to confirm what the pin connections are to make up a cable from the USB on the PC to the receiver. I assume the data in and out come from the large remote control connector....looks like "F" for "data in A" and "B" for "data out A" according to the pin chart in the RA6790 manual. Not sure what else might be needed?

Thanks much,
Mark

2634. Re: Re: [Racal6790GM] W6GER's Control Program [4 Attachments]

Yahoo group: Racal6790GM
Date: 2015-11-20 21:04:29 UTC
From: mpresley
Topic: 2630 Message: 2634

Thanks, Gary... I should have known you would have this documentation!

Mark

---- On Fri, 20 Nov 2015 12:54:30 -0700 'gewingerd@...' gewingerd@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote ----

[Attachment(s) from gewingerd@... included below] Mark,

See attached, these should help.

Thanks,
Gary

Please note: message attached

From: "mpresley@... [Racal6790GM]" <Racal6790GM@yahoogroups.com>
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] W6GER's Control Program
Date: 19 Nov 2015 18:40:30 -0800

========== Forwarded message ==========

Subject: [Racal6790GM] W6GER's Control Program
From: "mpresley@zoho.com [Racal6790GM]"<Racal6790GM@yahoogroups.com>
Date: 19 Nov 2015 18:40:30 -0800
To: <Racal6790GM@yahoogroups.com>

---------- Contents ----------

I've been checking out this control program for the 6790GM, and wonder if anyone else has used this and could help me out with connections to my PC?

Thanks!

Mark

========== End of Forwarded Mail ==========

2635. Re: W6GER's Control Program

Yahoo group: Racal6790GM
Date: 2015-11-20 18:01:08 UTC
From: mpresley@...
Topic: 2630 Message: 2635

OK, looks like I'll need to use a serial to usb adapter....I have a Belkin FSU109, so now I just need
inter pin connection information from the receiver to the DB9 on the adapter on the Belkin.
Mark

2636. Re: Re: [Racal6790GM] W6GER's Control Program [4 Attachments]

Yahoo group: Racal6790GM
Date: 2015-12-02 01:55:19 UTC
From: mpresley
Topic: 2630 Message: 2636

Hello, Gary..... hope the Holidays are going good for you!

I got a serial interface cable made up no problem with the fine setup and install documentation you provided.
The radio responds fine from the terminal program.....I tried most of the commands including BITE and all seems good, however,
nether W6GER's control program or Ergo4 program will work???? The Ergo displays a message : "Cannot load CTFile in BuildForm - Radio 1 open failed",
and the W6GER virtual RA6790GM program returns : "The receiver is not responding - verify your receiver ID settings configured in the serial port cable"

Wondering if you have run across anything like this before? Seems odd that terminal commands work the Racal fine, but 2 different control programs don't!???

Thanks,
Mark

---- On Fri, 20 Nov 2015 12:54:30 -0700 'gewingerd@...' gewingerd@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote ----

[Attachment(s) from gewingerd@... included below] Mark,

See attached, these should help.

Thanks,
Gary

Please note: message attached

From: "mpresley@... [Racal6790GM]" <;Racal6790GM@yahoogroups.com>
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] W6GER's Control Program
Date: 19 Nov 2015 18:40:30 -0800

========================= Forwarded message =========================

Subject: [Racal6790GM] W6GER's Control Program
From: "mpresley@... [Racal6790GM]"<Racal6790GM@yahoogroups.com>;
Date: 19 Nov 2015 18:40:30 -0800
To: <Racal6790GM@yahoogroups.com>

------------------------ Contents ------------------------

I've been checking out this control program for the 6790GM, and wonder if anyone else has used this and could help me out with connections to my PC?

Thanks!

Mark

====================== End of Forwarded Mail ======================

2637. Re: Re: [Racal6790GM] W6GER's Control Program

Yahoo group: Racal6790GM
Date: 2015-12-02 04:05:07 UTC
From: gewingerd@netzero.net
Topic: 2630 Message: 2637
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2638. Re: Re: Re: [Racal6790GM] W6GER's Control Program

Yahoo group: Racal6790GM
Date: 2015-12-02 14:26:31 UTC
From: mpresley
Topic: 2630 Message: 2638

Thanks much for the reply, sir! I just wanted to see if I was overlooking something stupid.....it's happened before!

Appreciate all the help....

Mark

---- On Tue, 01 Dec 2015 21:05:07 -0700 'gewingerd@...' gewingerd@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote ----

Mark,

If the receiver is working without the 2 programs then you know that it will work, check the baud rate, Parity and address settings of the programs. The address setting is only the receiver selected 00,49, 99.

I have never used the programs, I use a RS232 dumb terminal to talk to the radios.

Thanks,
Gary

Please note: message attached

From: "mpresley mpresley@... [Racal6790GM]" <Racal6790GM@yahoogroups.com>;
To: Racal6790GM@yahoogroups.com
Subject: Re: Re: [Racal6790GM] W6GER's Control Program
Date: Tue, 01 Dec 2015 18:55:19 -0700

========================= Forwarded message =========================

Subject: Re: Re: [Racal6790GM] W6GER's Control Program
From: "mpresley mpresley@... [Racal6790GM]"<Racal6790GM@yahoogroups.com>
Date: Tue, 01 Dec 2015 18:55:19 -0700
To: <Racal6790GM@yahoogroups.com>

------------------------ Contents ------------------------

Hello, Gary..... hope the Holidays are going good for you!

I got a serial interface cable made up no problem with the fine setup and install documentation you provided.
The radio responds fine from the terminal program.....I tried most of the commands including BITE and all seems good, however,
nether W6GER's control program or Ergo4 program will work???? The Ergo displays a message : "Cannot load CTFile in BuildForm - Radio 1 open failed",
and the W6GER virtual RA6790GM program returns : "The receiver is not responding - verify your receiver ID settings configured in the serial port cable"

Wondering if you have run across anything like this before? Seems odd that terminal commands work the Racal fine, but 2 different control programs don't!???

Thanks,
Mark

---- On Fri, 20 Nov 2015 12:54:30 -0700 'gewingerd@netzero.net' gewingerd@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote ----

[Attachment(s) from gewingerd@... included below] Mark,

See attached, these should help.

Thanks,
Gary

Please note: message attached

From: "mpresley@... [Racal6790GM]" <Racal6790GM@yahoogroups.com>
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] W6GER's Control Program
Date: 19 Nov 2015 18:40:30 -0800

========== Forwarded message ==========

Subject: [Racal6790GM] W6GER's Control Program
From: "mpresley@... [Racal6790GM]"<Racal6790GM@yahoogroups.com>
Date: 19 Nov 2015 18:40:30 -0800
To: <Racal6790GM@yahoogroups.com>

---------- Contents ----------

I've been checking out this control program for the 6790GM, and wonder if anyone else has used this and could help me out with connections to my PC?

Thanks!

Mark

========== End of Forwarded Mail ==========

========== End of Forwarded Mail ==========

2639. WTB or Trade IF filter

Yahoo group: Racal6790GM
Date: 2015-12-11 01:23:36 UTC
From: mpresley@...
Topic: 2639 Message: 2639

Hey, wonder if anyone has either a 5 (fat chance) or 6khz bandwidth filter to sell or trade me for a 3.24khz I have?

Thanks!
Mark Presley

2640. Odd fault on 1792 with MK3 1st VFO

Yahoo group: Racal6790GM
Date: 2016-02-11 09:35:38 UTC
From: Ian Ropper
Topic: 2640 Message: 2640

Hi ...
I’m new to this group and was wondering if any 1792 owners can shed light on a fault which I have encountered.
I’m in the process of re-building at least 5 RA1792s.

I've actually got 5 working CPU boards ...

2 x 88109 firmware ... supports BITE + LSI (MK4 1st LO)
1 x 84168 ... as above
1 x 84164 supports BITE + MK3 1st VFO
1 x unknown firmware ... but found to support BITE + MK3

I’m keen to see that the internal specs match the model number and option plate, so the current re-build is an ST83000 ... so that implies a MK3 1st VFO.

The receiver appears to work perfectly BUT the ‘fault’ annunciator is ‘lit’ at all times and BITE test 13 fails.
The fault manifests with all my working MK3 VFOs and both compatible CPUs.
Even tried changing the FP memory board.

Noticed that pin 8 of the DAC on the A4 board has a stepped waveform on it all the times ... doesn't sound right to me.

I've also got some pre-bite CPU boards but they are in a very sorry state.
I'm wondering if my MK3 VFOs pre-date my firmware.
I also keep finding inconsistencies in the service manual ... which isn't very helpful.

Any ideas anyone?

Cheers,

Ian, GM0UHC
www.chavfreezone.me.uk

2641. A1 OVP/PreAMP for the RA6790/GM

Yahoo group: Racal6790GM
Date: 2016-02-26 11:43:23 UTC
From: Chuck
Topic: 2641 Message: 2641

Greetings, For sale is the A1 OVP/PreAmp that is offered by a6a2. The OVP, the preamp with associated wiring and the mounting plate and instruction CD is included. This can be seen at: http://www.a6a2.co.uk/ I will sell for $150 shipped CONUS.
Chuck

2642. RA6790/gm has died

Yahoo group: Racal6790GM
Date: 2016-04-18 02:35:06 UTC
From: Grant Symons
Topic: 2642 Message: 2642

Hello to forum members After a couple of years of goodservice, my RA6790/gm now shows all zeros in the frequency display and nothing except2 zeros in the mode display. The Technical Manual in section 5.4.1 para3.b. suggests the A6A2 module is faulty but I'm not totally convinced. When Iunplug the edge connectors to the A7 and A8 modules, both displays behave normally andrespond correctly to all front panel controls. I also note that the 3 OOS ledson the A9 module (which are alight accompanying the zeros display) extinguishwhen I unplug the A7. The rails all seem to be ok - I've monitored (with and withoutboards connected) the four regulated 5, 15 and 20 volt rails as well as theun-reg 5 and 15 volt rails and they all seem to behave sensibly.Another thing I've checked is the A7 VCO output frequency atJ3 on A7. The waveform looks fine but it is sitting up at about 76.829MHzwhich I think is outside the normal range - probably indicating out of lock.I suspect that my problem is beyond easy diagnosis, but if anyone has any thoughts they would be most welcome.
regards Grant Symons

2643. Re: [Racal6790GM] RA6790/gm has died

Yahoo group: Racal6790GM
Date: 2016-04-18 14:42:11 UTC
From: gewingerd@netzero.net
Topic: 2642 Message: 2643
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2644. Re: [Racal6790GM] RA6790/gm has died

Yahoo group: Racal6790GM
Date: 2016-04-18 15:19:01 UTC
From: casy_ch@tbwil.ch
Topic: 2642 Message: 2644

By the way, have you looked at the supporting battery? If you change it
be extremely careful when unsoldering its pins as the pcb eyelets and
tracks lift themselves very easily. The quality of the pcb's on those
Racal rigs are not the best.

Jean-Claude, HB3YDH

Am 18.04.2016 um 04:35 schrieb Grant Symons symons.grant@...
[Racal6790GM]:
> Hello to forum members
> After a couple of years of good service, my RA6790/gm now shows all
> zeros in the frequency display and nothing except 2 zeros in the mode
> display. The Technical Manual in section 5.4.1 para 3.b. suggests the
> A6A2 module is faulty but I'm not totally convinced. When I unplug
> the edge connectors to the A7 and A8 modules, both displays behave
> normally and respond correctly to all front panel controls. I also
> note that the 3 OOS leds on the A9 module (which are alight
> accompanying the zeros display) extinguish when I unplug the A7.
> The rails all seem to be ok - I've monitored (with and without boards
> connected) the four regulated 5, 15 and 20 volt rails as well as the
> un-reg 5 and 15 volt rails and they all seem to behave sensibly.
> Another thing I've checked is the A7 VCO output frequency at J3 on
> A7. The waveform looks fine but it is sitting up at about 76.829MHz
> which I think is outside the normal range - probably indicating out of
> lock.
> I suspect that my problem is beyond easy diagnosis, but if anyone
> has any thoughts they would be most welcome.
>
> regards Grant Symons
>

2645. Re: [Racal6790GM] RA6790/gm has died

Yahoo group: Racal6790GM
Date: 2016-04-18 20:10:25 UTC
From: Dan Rae
Topic: 2642 Message: 2645

On 4/17/2016 7:35 PM, Grant Symons symons.grant@...
[Racal6790GM] wrote:
>
>
> The rails all seem to be ok - I've monitored (with and without boards
> connected) the four regulated 5, 15 and 20 volt rails as well as the
> un-reg 5 and 15 volt rails and they all seem to behave sensibly.

Are you absolutely sure about that? From my experience what you describe is one of the rails being pulled down by a shorted tantalum cap on the A7 board. For example the -15V rail shorted anywhere will stop the cpu working. On the A7 board from what I remember all the rails have at least one 6.8 µF Tant directly across them and also a second one downstream after an RFC or a small value R.

73 - Dan

2646. FS: 6.8khz filter

Yahoo group: Racal6790GM
Date: 2016-04-21 01:51:24 UTC
From: Chuck
Topic: 2646 Message: 2646

Greetings, Excess to my needs, I have a 6.8khz filter for the 6790. I would like $50 shipped to CONUS.
Chuck...wa2onk

2647. Re: [Racal6790GM] FS: 6.8khz filter

Yahoo group: Racal6790GM
Date: 2016-04-21 02:40:02 UTC
From: Glenn Little WB4UIV
Topic: 2646 Message: 2647

What is the part number on the filter?

73
Glenn
WB4UIV

On 4/20/2016 9:51 PM, Chuck wa2onk@... [Racal6790GM] wrote:
> Greetings,
> Excess to my needs, I have a 6.8khz filter for the 6790. I would
> like $50 shipped to CONUS.
>
> Chuck...wa2onk
>
>

--

Glenn Little ARRL Technical Specialist QCWA LM 28417
Amateur Callsign: WB4UIV wb4uiv@... AMSAT LM 2178
QTH: Goose Creek, SC USA (EM92xx) USSVI LM NRA LM SBE ARRL TAPR
"It is not the class of license that the Amateur holds but the class
of the Amateur that holds the license"

2648. Re: [Racal6790GM] FS: 6.8khz filter

Yahoo group: Racal6790GM
Date: 2016-04-21 15:23:52 UTC
From: Chuck
Topic: 2646 Message: 2648

Glen, Don't know exactly what number you need.... I will supply all that is written on the filter.
MOUDLE SPECIAL I.F. FILTER #4455 KHZ 6.8KHZ 23386/08414RACAL COMMUNICATIONS INC.F04606-79-D-0082 FSC# 52748S/N# 474NSN# 5915010948752ZX
Chuck...wa2onk

From: "Glenn Little WB4UIV glennmaillist@... [Racal6790GM]" <Racal6790GM@yahoogroups.com>
To: Racal6790GM@yahoogroups.com
Sent: Wednesday, April 20, 2016 10:40 PM
Subject: Re: [Racal6790GM] FS: 6.8khz filter

  What is the part number on the filter?

73
Glenn
WB4UIV

On 4/20/2016 9:51 PM, Chuck wa2onk@... [Racal6790GM] wrote:
> Greetings,
> Excess to my needs, I have a 6.8khz filter for the 6790. I would
> like $50 shipped to CONUS.
>
> Chuck...wa2onk
>
>

--

Glenn Little ARRL Technical Specialist QCWA LM 28417
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"It is not the class of license that the Amateur holds but the class of the Amateur that holds the license"

2649. RA1792 ST80730 frequency measuring version BITE codes.

Yahoo group: Racal6790GM
Date: 2016-04-24 13:00:19 UTC
From: i1epj@...
Topic: 2649 Message: 2649

Hello all,

i own a RA1792 model no. ST80730 with options GB/S2/S/D/1/A (with 1 Hz resolution, 100 kHz IF output, GPIB interface and BITE, I think it's the frequency measuring version of the receiver), which apparently works correctly, but when BITE is run it shows some errors (21, 31, 32. 34. 35, as shown by running BITE from the GPIB interface).

Someone out there has a list of the meaning of these error codes? I've searched the Keith's site, but without luck, none of the lists there seems to apply to this particular version.

The only thing I know about firmware version is a faint 56 handwritten on the 3 EPROMs. To help identifying it I can also say that test number 36 is a display test (activates all indicators in the displays).

Thank you is advance for any info.

2650. Re: [Racal6790GM] RA1792 ST80730 frequency measuring version BITE codes.

Yahoo group: Racal6790GM
Date: 2016-04-24 16:54:22 UTC
From: Dan Rae
Topic: 2649 Message: 2650

First it is a good guess that your firmware version is P83056, that is not inconsistent with the options you quote, although I don't see how you infer BITE from those options. This like most of the three eprom versions shows in the list as PRE BITE, so I'm not sure what you are seeing from your "BITE" tests...

This is a pretty standard configuration for the receivers supplied to GCHQ and measuring frequency would be the least of it's applications. The 100 kHz IF outputs allowed for a lot of signal analysis to be carried out.

In the list of BITE tests for /all/ the later versions, 31 and 32 are shown as SCORE loopback tests so obviously don't apply to your radio. 21 shows as a Filter insertion loss test, and 34 and 35 don't exist.

But I've no idea how you are getting to run BITE tests in a receiver that doesn't support BITE, and I would suggest that you should stop worrying about the results :^)

73 - Dan

ac6ao / g3ncr

2651. Re: [Racal6790GM] RA1792 ST80730 frequency measuring version BITE codes.

Yahoo group: Racal6790GM
Date: 2016-04-24 18:32:16 UTC
From: LucidSound
Topic: 2649 Message: 2651

The mention of ‘pre BITE’ on earlier 1792 receivers is something that has bothered me for a while. Those earlier sets with three EPROMS certainly had an inbuilt test routine known as BITE but it was not as extensive as that on the later backlit receivers.

The BITE was initiated by flipping one of the DiL switches on the front panel memory card and then turning the tuning knob. The receiver would then go into a series of around 30 tests, the final one of which was to display all segments on the panel LCDs.

Somewhere in my archive I have a list of what those 30 or so tests were. I currently have two early sets here and both of those support this BITE version.

Keith

From: mailto:Racal6790GM@yahoogroups.com
Sent: Sunday, April 24, 2016 5:54 PM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] RA1792 ST80730 frequency measuring version BITE codes.

First it is a good guess that your firmware version is P83056, that is not inconsistent with the options you quote, although I don't see how you infer BITE from those options. This like most of the three eprom versions shows in the list as PRE BITE, so I'm not sure what you are seeing from your "BITE" tests...

This is a pretty standard configuration for the receivers supplied to GCHQ and measuring frequency would be the least of it's applications. The 100 kHz IF outputs allowed for a lot of signal analysis to be carried out.

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But I've no idea how you are getting to run BITE tests in a receiver that doesn't support BITE, and I would suggest that you should stop worrying about the results :^)

73 - Dan

ac6ao / g3ncr

2652. Re: [Racal6790GM] RA1792 ST80730 frequency measuring version BITE codes.

Yahoo group: Racal6790GM
Date: 2016-04-25 02:00:11 UTC
From: Dan Rae
Topic: 2649 Message: 2652

On 4/24/2016 11:32 AM, 'LucidSound' lucidsound@... [Racal6790GM] wrote:
>
>
> The mention of ‘pre BITE’ on earlier 1792 receivers is something that
> has bothered me for a while. Those earlier sets with three EPROMS
> certainly had an inbuilt test routine known as BITE but it was not as
> extensive as that on the later backlit receivers.
> The BITE was initiated by flipping one of the DiL switches on the
> front panel memory card and then turning the tuning knob. The receiver
> would then go into a series of around 30 tests, the final one of which
> was to display all segments on the panel LCDs.
> Somewhere in my archive I have a list of what those 30 or so tests
> were. I currently have two early sets here and both of those support
> this BITE version.
> Keith
Keith it would be great if you could find this information or any more
precise details. Which switch at least? It is nothing I've seen
documented in any of my 3 different version manuals.

73 - Dan

2653. Re: RA1792 ST80730 frequency measuring version BITE codes.

Yahoo group: Racal6790GM
Date: 2016-04-25 07:29:56 UTC
From: i1epj@...
Topic: 2649 Message: 2653

Hello Keith and Dan,

first thanks to both for the infos. If Keith can find and share that list, this will be very useful.

On my set, there are two methods to start BITE (or whatever is...): the first is the same documented in Keith's site (flip S1B on the front panel board and then press REMOTE followed by the start test number), the second, much more comfortable, is through the GPIB interface: there is a command X followed by a number which starts BITE from the test number given, without the need to remove the receiver from the rack and open the case to switch S1B.

About the errors my set is giving, the two of them that are for testing the SCORE interface obviously must be ignored, the other two (34 and 35) i don't know if they exist or not and, if yes, what is their purpose, I can only say that BITE stops on them. So the only true error remaining should be the 21 regarding attenuation of one of the filters.

Thank you again.

Giuseppe

2654. Re: RA6790/gm has died

Yahoo group: Racal6790GM
Date: 2016-04-25 23:27:08 UTC
From: symons.grant@...
Topic: 2642 Message: 2654

Thanks Jean-Claude. The battery is clean - no corrosion - and I find that with the A7 and A8 boards disconnected, the displays hold their values with the power off so I suspect that the battery is ok.

cheers Grant Symons

2655. Re: [Racal6790GM] RA6790/gm has died

Yahoo group: Racal6790GM
Date: 2016-04-25 23:25:04 UTC
From: symons.grant@...
Topic: 2642 Message: 2655

Thanks Gary. I find that by disconnecting the A7 and A8 boards, the displays and membrane switches all operate perfectly. My problem remains that despite very careful measurement of the rails on all of the ICs on both A7 and A8, I can't identify anything being clearly out of spec. The only exception is +12v rather than +15v on pin 13 of U23 on A7, but I think the circuit is incorrect in that regard. Any further suggestions would be gratefully received.

cheers Grant Symons

2656. Re: [Racal6790GM] RA6790/gm has died

Yahoo group: Racal6790GM
Date: 2016-04-25 23:18:02 UTC
From: symons.grant@...
Topic: 2642 Message: 2656

Hi there Dan - I appreciate your help. Thinking about your suggestion/reply, I realized that more could be done and set about measuring the rails individually on pretty-much every device on A7. Finally I thought I had something when I measured +12v on pin 13 of U23 (D/A converter) as it is marked on the circuit as +15v but I am now thinking that the circuit is a mis-print since pin 13 seems to be fed directly from the on-board 12v regulator U39.

I also discovered that the 5.2v rail on A7 was a little low (starting at power-up around 4.8v and then drifting up to 5.1v) and that the 1ohm resistor R19 in the on-board regulator was high at 1.5ohms. So I fixed that and adjusted R16 for 5.2v but still zeros everywhere in the displays.

Starting to doubt that A7 is the problem, I also went through A8 measuring the rails everywhere but to no avail - everything looks normal.

One possible clue is that there appears to be a temperature dependence. If I allow the Rx to heat up with the covers on in a warm room for a few hours, I can sometimes coax into behaving normally, but taking the covers off causes loss of control and the displays to go crazy again.

I am now starting to look at signal frequencies and levels but nothing sticks out so far. I'm starting to run out of ideas so any further suggestions would be most welcome.

cheers Grant Symons

---In racal6790gm@yahoogroups.com, <danrae@...> wrote :

On 4/17/2016 7:35 PM, Grant Symons symons.grant@... mailto:symons.grant@... [Racal6790GM] wrote:

The rails all seem to be ok - I've monitored (with and without boards connected) the four regulated 5, 15 and 20 volt rails as well as the un-reg 5 and 15 volt rails and they all seem to behave sensibly.

Are you absolutely sure about that? From my experience what you describe is one of the rails being pulled down by a shorted tantalum cap on the A7 board. For example the -15V rail shorted anywhere will stop the cpu working. On the A7 board from what I remember all the rails have at least one 6.8 µF Tant directly across them and also a second one downstream after an RFC or a small value R.

73 - Dan

2657. Re: [Racal6790GM] Re: RA1792 ST80730 frequency measuring version BITE codes.

Yahoo group: Racal6790GM
Date: 2016-04-26 11:25:31 UTC
From: LucidSound
Topic: 2649 Message: 2657

Here is the list of fault codes for the earlier version of BITE:

10 20Mhz Reference osc out of lock

11 BFO out of lock at -8khz

12 BFO out of lock at +8khz

20 USB audio level in AGC out of range

21 USB AGC/MGC variation greater than +-2db

22 Insufficient I.F Isolation with no filter selected

25 LSB audio level in AGC out of range

26 LSB AGC/MGC variation greater than +-2db

31 FL3 More than 6 db below other filters

32 FL4 More than 6 db below other filters

34 FL6 More than 6 db below other filters

35 FL7 More than 6 db below other filters

36 Insufficient DAC range to adjust Audio to required level

If you are seeing Error 21, then this might just require a minor adjustment of the AGC circuit.

Hope that helps,

Keith.

2658. Re: [Racal6790GM] RA6790/gm has died

Yahoo group: Racal6790GM
Date: 2016-04-26 14:40:44 UTC
From: Dan Rae
Topic: 2642 Message: 2658

On 4/25/2016 4:18 PM, symons.grant@... [Racal6790GM] wrote:

> Starting to doubt that A7 is the problem, I also went through A8
> measuring the rails everywhere but to no avail - everything looks normal.
>
>
> One possible clue is that there appears to be a temperature
> dependence. If I allow the Rx to heat up with the covers on in a warm
> room for a few hours, I can sometimes coax into behaving normally, but
> taking the covers off causes loss of control and the displays to go
> crazy again.
>
Grant , what you describe now is /not/ the usual failed tantalum problem. When that happens the supply rail concerned will see a pretty much dead short and will be pulled down to very near zero by current limiting in the regulator IC. Not something that is intermittent or temperature dependent. But beware of C2 in the +20V supply, that can cause the pass transistor to get very hot and burn up the PC board.

All zeros on the display is the reset state of the A6A2 CPU card, and I'd go back and look at that card. I have seen a few with an intermittent problem that was down to the two big (and expensive) ICs at one end, the CPU and SMI partially failing. I think only once I had an intermittent crystal, unlikely though that sounds. It might be possible to isolate the area with cold spray if it's temperature dependent. If you had any spare cards then the easy way to isolate the problem to a particular board is to swap for a known good one. If the displays don't show anything sensible then the radio won't work.

Not a lot of help I'm afraid, but I do think you've established that there's nothing wrong with the supply voltages.

And for what it's worth no back up battery won't stop it working, once you've entered sensible numbers for frequency and BFO. But a leaking battery will kill it for sure...

Good luck!

Dan

2659. Re: [Racal6790GM] Re: RA1792 ST80730 frequency measuring version BITE codes.

Yahoo group: Racal6790GM
Date: 2016-04-28 16:51:48 UTC
From: i1epj@...
Topic: 2649 Message: 2659

Thank you Keith for the info.

The errors shown are 21, 31, 32, 34 and 35. Apart from 21, the others refer to the attenuation of four of six filters. Do you have any clue on what can cause these errors? Seems unlikely to me that four filters show the same problem. Maybe this can be related to the error 21?

Regards.

2660. Re: [Racal6790GM] Re: RA1792 ST80730 frequency measuring version BITE codes.

Yahoo group: Racal6790GM
Date: 2016-04-29 15:00:25 UTC
From: Dan Rae
Topic: 2649 Message: 2660

On 4/28/2016 9:51 AM, i1epj@... [Racal6790GM] wrote:
>
>
> Thank you Keith for the info.
>
> The errors shown are 21, 31, 32, 34 and 35. Apart from 21, the others
> refer to the attenuation of four of six filters. Do you have any clue
> on what can cause these errors? Seems unlikely to me that four filters
> show the same problem. Maybe this can be related to the error 21?
>
I would hazard a guess that doing the manual alignment procedure for the
A4 board will cure all these "errors". It doesn't take long to do.

73 - Dan

ac6ao / g3ncr

2661. Re: [Racal6790GM] Re: RA1792 ST80730 frequency measuring version BITE codes.

Yahoo group: Racal6790GM
Date: 2016-04-30 14:22:52 UTC
From: i1epj@...
Topic: 2649 Message: 2661

Hello Dan,

thank you for the hint. As soon as I have the time I will try and post the results.
Regards.

2662. Re: [Racal6790GM] Re: RA1792 ST80730 frequency measuring version BITE codes.

Yahoo group: Racal6790GM
Date: 2016-05-31 14:34:18 UTC
From: i1epj@...
Topic: 2649 Message: 2662

Hello Dan,

you was absolutely right. After doing the A4 board alignment procedure, the BITE ran without errors.

Thanks again to you and Keith for the help.

Giuseppe

2663. Ailing RA1792...

Yahoo group: Racal6790GM
Date: 2016-06-05 16:49:37 UTC
From: john@...
Topic: 2663 Message: 2663

Hi,

RA1792 newbie looking for help. If my questions have been answered elsewhere my apologies but I did look…

I acquired an RA1792 a couple of days ago. It had apparently been standing unused for a long time. The receiver looks clean and unmolested with all covers and screws present. I had hoped that it would work but sadly that's not the case. I obtained this for a good price so I'm not grumbling – just hoping I can make it well again!

(1) The right hand side display has run and is unreadable so that will need changing

(2) Whilst initially there was some background hiss this soon disappeared, now there are no sounds in the speaker or headphones. I suspect that one of the fuse links has blown, possibly FS2 which I think supplies voltage to the audio stage. Repairing this would be easier with the PSU removed but I cannot see how this can be done… I've removed the four screws at the rear panel that appear to secure the PSU and initially loosened three screws on the PSU chassis but it does not move. Are there screws underneath? If that was the case I'd presumably have to remove a cover and a pcb… The Manual doesn't appear to be much help – maybe because it's so obvious…

(3) Initially the receiver would tune i.e. the frequency could be changed with the tuning knob but the tuning rate did not change in sympathy with the tuning knob's speed of rotation – there was one tuning speed – and that was pretty slow… Now it won't tune at all– it just seems to change a few kc/s and appears to be bogged down…

Can anyone give me any ideas of where to look. I presume a capacitor(s) on a supply line is dragging the line down?

Any help/suggestions gratefully received.

2664. Re: [Racal6790GM] Ailing RA1792...

Yahoo group: Racal6790GM
Date: 2016-06-05 16:55:48 UTC
From: Sean Williams
Topic: 2663 Message: 2664

In my admittedly sparse knowledge of the 1792, I would suggest you need to start replacing tantalum capacitors

Cheets
Sean

Sent from my time machine tomorrow

> On 5 Jun 2016, at 17:49, john@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote:
>
>
> Hi,
>
>
>
> RA1792 newbie looking for help. If my questions have been answered elsewhere my apologies but I did look…
>
>
>
> I acquired an RA1792 a couple of days ago. It had apparently been standing unused for a long time. The receiver looks clean and unmolested with all covers and screws present. I had hoped that it would work but sadly that’s not the case. I obtained this for a good price so I’m not grumbling – just hoping I can make it well again!
>
>
>
> (1) The right hand side display has run and is unreadable so that will need changing
>
>
>
> (2) Whilst initially there was some background hiss this soon disappeared, now there are no sounds in the speaker or headphones. I suspect that one of the fuse links has blown, possibly FS2 which I think supplies voltage to the audio stage. Repairing this would be easier with the PSU removed but I cannot see how this can be done… I’ve removed the four screws at the rear panel that appear to secure the PSU and initially loosened three screws on the PSU chassis but it does not move. Are there screws underneath? If that was the case I’d presumably have to remove a cover and a pcb… The Manual doesn’t appear to be much help – maybe because it’s so obvious…
>
>
>
> (3) Initially the receiver would tune i.e. the frequency could be changed with the tuning knob but the tuning rate did not change in sympathy with the tuning knob’s speed of rotation – there was one tuning speed – and that was pretty slow… Now it won’t tune at all– it just seems to change a few kc/s and appears to be bogged down…

>

>
>
> Can anyone give me any ideas of where to look. I presume a capacitor(s) on a supply line is dragging the line down?
>
>
>
> Any help/suggestions gratefully received.
>
>
>
>

2665. Re: [Racal6790GM] Ailing RA1792...

Yahoo group: Racal6790GM
Date: 2016-06-05 18:15:25 UTC
From: LucidSound
Topic: 2663 Message: 2665

Hi John,

The power supply is secured by screws in the rear panel as well as four (I think!) retaining screws in the base of the PSU unit. From memory you have to remove the whole back panel (which is not as bad as it sounds).

Schematics are out there – make sure all supplies are present and correct on the audio board. The receivers can and do suffer from tantalum capacitors going short and there's a lot of them. If there is a short somewhere, try and disconnect boards to identify where the short is.

Once you have supplies running and boards connected, check for Local Oscillator outputs and look for 455kHz reaching the IF/AF Board.

Replacement displays are available here: http://www.1792lcd.com/index.php?sect=fdisplay

The tuning rate can be changed by reversing the metal tuning disc – one side has patterns for lo speed.

Restoring these sets can be a challenge, made a lot easier if you have a second working set. Which is why I have two.

HTH

Keith
G4IDU.

2666. Re: Ailing RA1792...

Yahoo group: Racal6790GM
Date: 2016-06-05 20:36:37 UTC
From: john@...
Topic: 2663 Message: 2666

Sean & Keith - thanks for your inputs.

"The power supply is secured by screws in the rear panel"

I have removed these five...

"as well as four (I think!) retaining screws in the base of the PSU unit."

I can see four screws in the base of the PSU (looking from the top), one on either side of the spare fuse and a couple on the other side of the PSU, I couldn't find the fourth but it was lurking under a wiring loom ! Now I've loosened all four (they are captive screws and won't come completely out) and would have thought the PSU could be pushed forward i.e. towards the front panel by about an inch and lifted up clear (after removing the two connectors of course...)

"From memory you have to remove the whole back panel (which is not as bad as it sounds)."

Keith, why does the back panel have to be removed?

There's a small pcb, about the size of a matchbox inside the PSU near the output connector which has two fuse links on it and one seems to have ruptured...this is what I need to gain access to and it doesn't appear to be shown in the Manual.

"Restoring these sets can be a challenge"

For me being partially sighted I suspect it's going to extra challenging!

Thanks again for your inputs.

John

2667. Re: [Racal6790GM] Re: Ailing RA1792...

Yahoo group: Racal6790GM
Date: 2016-06-05 21:24:13 UTC
From: Dan Rae
Topic: 2663 Message: 2667

John,

Those fuse links are shown on all the manuals I have and should be easy to replace without removing the whole PS. But there are what five Marks (?) and only I've got three manuals :^) You might need to remove the OCXO if fitted for access. FS1 is on the 5V unreg line (about 8V) between tag E2 and pins 5 and 18 on A1J1 and FS2 is on the 15V unreg line (maybe 18V) between E4 and pins 3 and 16 on the connector. No idea what gauge wire is needed but I've just used something like a single strand of 40 s.w.g wire. Can you even buy fuse wire any more? Check C106 which is before the regulator feeding the audio amp, it's probably the culprit...

I don't recommend replacing all the tantalums. I did do it once on the first 1792 I had which came with a total of five shorted ones but it took about a week of struggling. Since then I've only ever done it when needed. The A4 board is difficult since it is very thick and has plated through holes with no heat relief around them.

The Italian LC displays are great in my experience for the non back lit ones, but when I fitted one to a back lit radio the backing was not transparent and so I had no back light. My query to the supplier who claims they work in both versions remains unanswered. It's possible they have changed since then. The picture on the web looks as if they've changed, but I'd query that if you do want a back lit version, they might even answer...

Good luck!

Dan

ac6ao / g3ncr

2668. For Sale 6790 AS IS

Yahoo group: Racal6790GM
Date: 2016-06-08 22:05:36 UTC
From: ka9p@...
Topic: 2668 Message: 2668

It's time to part with one of my 6790s.

The radio is passing BITE at the moment, although will from time to time generate a filter-related error code.

The receiver is actually working in USB/LSB but won' recognize any of the other filters when running BITE or when other mods are selected (it defaults to the broadest filter).

The receiver is equipped with 7 crystal filters - all the ones you'd want I guess - USB, LSB, 0.4, 1.2, 3.24, 6.7, and 16 khz, and also has an asynch card that I have never used.

This receiver was assembled from spare boards from a repair depot several years ago, and was running well up until recently when it faulted after the monthly overnight test.

The keypads seemed to function well, and the displays are crisp and well-lit with recent new incandescents installed when the receiver was put together.

The radio has a WJ tuning knob that rattles a bit if you spin it quickly but it never really bothered me in normal use.

The strictly AS IS price is $350 cash if picked up in the western suburbs of Chicago, $400 plus shipping if you want it shipped. Price is firm, at least for a while, as I'll part it out if there is no interest. I expect there is a simple failure on the main board, but am not inclined to try to trouble shoot it further at this point, as it's heard thinning time anyway.

Thanks, Scott

2669. Re: [Racal6790GM] For Sale 6790 AS IS

Yahoo group: Racal6790GM
Date: 2016-06-08 22:43:37 UTC
From: mparkinson
Topic: 2668 Message: 2669

Hi Scott
I will take it not spoken for by now.
thanks Matt P

From: mailto:Racal6790GM@yahoogroups.com
Sent: Wednesday, June 08, 2016 3:05 PM
To: racal6790gm@yahoogroups.com
Cc: ka9p@...
Subject: [Racal6790GM] For Sale 6790 AS IS

It's time to part with one of my 6790s.

The radio is passing BITE at the moment, although will from time to time generate a filter-related error code.

The receiver is actually working in USB/LSB but won' recognize any of the other filters when running BITE or when other mods are selected (it defaults to the broadest filter).

The receiver is equipped with 7 crystal filters - all the ones you'd want I guess - USB, LSB, 0.4, 1.2, 3.24, 6.7, and 16 khz, and also has an asynch card that I have never used.

This receiver was assembled from spare boards from a repair depot several years ago, and was running well up until recently when it faulted after the monthly overnight test.

The keypads seemed to function well, and the displays are crisp and well-lit with recent new incandescents installed when the receiver was put together.

The radio has a WJ tuning knob that rattles a bit if you spin it quickly but it never really bothered me in normal use.

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Thanks, Scott

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2016.0.7639 / Virus Database: 4598/12375 - Release Date: 06/06/16

2670. Re: [Racal6790GM] For Sale 6790 AS IS

Yahoo group: Racal6790GM
Date: 2016-06-09 03:27:53 UTC
From: Paul Dulaff
Topic: 2668 Message: 2670

Scott

Can I see a couple of pictures, say the face and the internals ?

Paul - WB2NMI

----- Original Message -----
From: ka9p@... [Racal6790GM] <Racal6790GM@yahoogroups.com>
To: racal6790gm@yahoogroups.com
Cc: ka9p@aol.com
Sent: Wed, 08 Jun 2016 18:05:36 -0400 (EDT)
Subject: [Racal6790GM] For Sale 6790 AS IS

It's time to part with one of my 6790s. The radio is passing BITE at the moment, although will from time to time
generate a filter-related error code. The receiver is actually working in USB/LSB but won' recognize any of the
other filters when running BITE or when other mods are selected (it defaults to
the broadest filter). The receiver is equipped with 7 crystal filters - all the ones you'd want I
guess - USB, LSB, 0.4, 1.2, 3.24, 6.7, and 16 khz, and also has an asynch
card that I have never used. This receiver was assembled from spare boards from a repair depot several
years ago, and was running well up until recently when it faulted after the
monthly overnight test. The keypads seemed to function well, and the displays are crisp and well-lit with recent new incandescents installed when the receiver was put
together. The radio has a WJ tuning knob that rattles a bit if you spin it quickly
but it never really bothered me in normal use. The strictly AS IS price is $350 cash if picked up in the western suburbs
of Chicago, $400 plus shipping if you want it shipped. Price is firm,
at least for a while, as I'll part it out if there is no interest. I
expect there is a simple failure on the main board, but am not inclined to try
to trouble shoot it further at this point, as it's heard thinning time
anyway. Thanks, Scott

2671. Re: [Racal6790GM] For Sale 6790 AS IS

Yahoo group: Racal6790GM
Date: 2016-06-09 03:41:57 UTC
From: ka9p@...
Topic: 2668 Message: 2671
Attachments: 2 described; binary payloads are missing from this source WARC

Sure Paul, see attached, which is what I have available from where I'm at,
I can shoot a few more tomorrow of the inside if you want me to.

73 Scott

In a message dated 6/8/2016 10:27:56 P.M. Central Daylight Time,
Racal6790GM@yahoogroups.com writes:

Scott

Can I see a couple of pictures, say the face and the internals ?

Paul - WB2NMI

----- Original Message -----
From: ka9p@... [Racal6790GM] <Racal6790GM@yahoogroups.com>
To: racal6790gm@yahoogroups.com
Cc: ka9p@...
Sent: Wed, 08 Jun 2016 18:05:36 -0400 (EDT)
Subject: [Racal6790GM] For Sale 6790 AS IS

It's time to part with one of my 6790s.

The ra dio is passing BITE at the moment, although will from time to time
generate a filter-related error code.

The receiver is actually working in USB/LSB but won' recognize any of the
other filters when running BITE or when other mods are selected (it
defaults to
the broadest filter).

The receiver is equipped with 7 crystal filters - all the ones you'd want
I
guess - USB, LSB, 0.4, 1.2, 3.24, 6.7, and 16 khz, and also has an asynch
card that I have never used.

This receiver was assembled from spare boards from a repair depot several
years ago, and was running well up until recently when it faulted after
the
monthly overnight test.

The keypads seemed to function well, and the displays are crisp and
well-lit with recent new incandescents installed when the receiver was put

together.

The radio has a WJ tuning knob that rattles a bit if you spin it quickly but it never really bothered me in normal use.

The strictly AS IS price is $350 cash if picked up in the western suburbs of Chicago, $400 plus shipping if you want it shipped. Price is firm, at least for a while, as I'll part it out if there is no interest. I expect there is a simple failure on the main board, but am not inclined to try
to trouble shoot it further at this point, as it's heard thinning time anyway.

Thanks, Scott

2672. Re: [Racal6790GM] For Sale 6790 AS IS

Yahoo group: Racal6790GM
Date: 2016-06-09 03:54:48 UTC
From: gewingerd@netzero.net
Topic: 2668 Message: 2672
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2673. Re: [Racal6790GM] For Sale 6790 AS IS [2 Attachments]

Yahoo group: Racal6790GM
Date: 2016-06-09 04:16:28 UTC
From: Paul Dulaff
Topic: 2668 Message: 2673

Scott

OK, how do I get the $400.00 dollars to you ?

I live in 07832

Paul - WB2NMI

----- Original Message -----
From: ka9p@... [Racal6790GM] <Racal6790GM@yahoogroups.com>
To: Racal6790GM@yahoogroups.com
Sent: Wed, 08 Jun 2016 23:41:57 -0400 (EDT)
Subject: Re: [Racal6790GM] For Sale 6790 AS IS [2 Attachments]

[Attachment(s) from ka9p@... included below]Sure Paul, see attached, which is what I have available from where I'm at,
I can shoot a few more tomorrow of the inside if you want me to. 73 Scott In a message dated 6/8/2016 10:27:56 P.M. Central Daylight Time,
Racal6790GM@yahoogroups.com writes:

Scott

Can
I see a couple of pictures, say the face and the internals
?

Paul -
WB2NMI

----- Original
Message -----
From: ka9p@... [Racal6790GM]
<Racal6790GM@yahoogroups.com>
To: racal6790gm@yahoogroups.com
Cc:
ka9p@...
Sent: Wed, 08 Jun 2016 18:05:36 -0400 (EDT)
Subject:
[Racal6790GM] For Sale 6790 AS IS

It's time to
part with one of my 6790s. The ra dio is
passing BITE at the moment, although will from time to time
generate a
filter-related error code. The receiver is
actually working in USB/LSB but won' recognize any of the
other filters

when running BITE or when other mods are selected (it defaults to
the
broadest filter). The receiver is
equipped with 7 crystal filters - all the ones you'd want I
guess -
USB, LSB, 0.4, 1.2, 3.24, 6.7, and 16 khz, and also has an asynch
card
that I have never used. This receiver
was assembled from spare boards from a repair depot several
years ago, and
was running well up until recently when it faulted after the
monthly
overnight test. The keypads
seemed to function well, and the displays are crisp and
well-lit with
recent new incandescents installed when the receiver was put

together. The radio has a
WJ tuning knob that rattles a bit if you spin it quickly
but it never
really bothered me in normal use.
The strictly AS
IS price is $350 cash if picked up in the western suburbs
of
Chicago, $400 plus shipping if you want it shipped. Price is firm,

at least for a while, as I'll part it out if there is no interest. I

expect there is a simple failure on the main board, but am not inclined to
try
to trouble shoot it further at this point, as it's heard thinning time

anyway. Thanks,
Scott

2674. Re: [Racal6790GM] For Sale 6790 AS IS

Yahoo group: Racal6790GM
Date: 2016-06-09 04:23:11 UTC
From: Scott McDonald
Topic: 2668 Message: 2674

Thanks Gary, sorry to say it just sold.

I have another one, with the full complement of Collins mechanical filters and green LEDs generally passing BITE and pretty much in working order but for failure to detect the AM filter.

I was going to list that for 450 if you have any interest in that.

Thanks again.

Scott

Sent from my iPad

> On Jun 8, 2016, at 10:54 PM, 'gewingerd@...' gewingerd@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote:
>
> Scott,
>
> I am interested.
> Gary Wingerd
>
> Please note: message attached
>
> From: "ka9p@... [Racal6790GM]" <Racal6790GM@yahoogroups.com>
> To: racal6790gm@yahoogroups.com
> Cc: ka9p@...
> Subject: [Racal6790GM] For Sale 6790 AS IS
> Date: Wed, 8 Jun 2016 18:05:36 -0400
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> ------------------------------------
>
> Yahoo Groups Links
>
>
>
> <mime-attachment>

2675. 6790

Yahoo group: Racal6790GM
Date: 2016-06-09 04:38:54 UTC
From: Scott McDonald
Topic: 2675 Message: 2675

Sorry Paul, I got paid by the first responder about the time you asked for pics.

I have a second one with Collins filters and green LEDs, AS IS generally working but for not detecting the AM filter - I expect it's a solder connection around the filter but might be a bad filter or component around it-was going to list for 450 plus shipping if you'd have any interest in that, although that's been offered to the second guy, not sure if he'll take it.

Thanks again for your interest.

Scott

Sent from my iPad

2676. Re: Ailing RA1792...

Yahoo group: Racal6790GM
Date: 2016-06-12 11:01:46 UTC
From: john@...
Topic: 2663 Message: 2676

Thanks again for your inputs, my apologies for the late reply, grass cutting etc gets in the way!

Dan – thanks for your help with the PSU pin numbers. The ‘E’ pin numbers are marked ‘underneath’ the board so that initially confused me! I have two cct diagrams of the psu – and the fuse links are marked differently... There is an abridged Manual at premium receiver.com and I downloaded another, an Issue 11 but I get the impression it’s not complete – or maybe it is and I can’t find anything in it! RA1792 manuals seem to be scarcer than the RA1772 manuals.

I checked C106 near the audio amp regulator as you suggested and it was indeed dead short, I’ve replaced it with an electrolytic for now. I’ve also reversed the encoder disc, previously tuning was a real pain, it was ‘so’ slow – thanks for that one Keith!

I’m a bit concerned about the two unregulated voltages. They both strike me as being rather high but come directly from CR1 & CR2 rectifiers/smoothers. The 5v unregulated measures 11.5v whilst the 15v unregulated measures 22v! A far as I can see the 15v unregulated only feeds the audio amp via a voltage regulator and that gives a nominal 12v and is barely warm.

The battery has also been leaking and I need to replace it but I cannot find any reference to it in the Manual. Can anyone on here give me the type number?

The receiver now works and appears sensitive comparing well with my RA1772’s, I do get the impression it’s noisier. However, especially on switch on the tuning appears erratic which seems to improve after the receiver has been running for a while.

Somehow I think this receiver may keep me out of trouble for a good while – or finish off on Ebay!

Thanks again for your help.

John

2677. Re: [Racal6790GM] Re: Ailing RA1792...

Yahoo group: Racal6790GM
Date: 2016-06-12 15:19:44 UTC
From: Dan Rae
Topic: 2663 Message: 2677

On 6/12/2016 4:01 AM, john@... [Racal6790GM] wrote:
>
>
> Thanks again for your inputs, my apologies for the late reply, grass
> cutting etc gets in the way!
>
> Dan – thanks for your help with the PSU pin numbers.The ‘E’ pin
> numbers are marked ‘underneath’ the board so that initially confused
> me!I have two cct diagrams of the psu – and the fuse links are marked
> differently...There is an abridged Manual at /premium receiver.com/
> and I downloaded another, an Issue 11 but I get the impression it’s
> not complete – or maybe it is and I can’t find anything in it!RA1792
> manuals seem to be scarcer than the RA1772 manuals.
>
John, we still don't know what Mark Rx you have, like I said before
there were five or so different versions, three main ones at least. I've
only seen the early non back lit version manual on line, the one
originally scanned by Keith Rawlings and now widely disseminated.

> I checked C106 near the audio amp regulator as you suggested and it
> was indeed dead short
>
Not always easy to fault find from eight time zones distance but we try :^)
>
> I’m a bit concerned about the two unregulated voltages.They both
> strike me as being rather high but come directly from CR1 & CR2
> rectifiers/smoothers.The 5v unregulated measures 11.5v whilst the 15v
> unregulated measures 22v! A far as I can see the 15v unregulated only
> feeds the audio amp via a voltage regulator and that gives a nominal
> 12v and is barely warm.
>
I don't think there's anything wrong there, but you might check the
mains voltage setting and move it to the highest setting if it's not
already there. In any case you will never have the heat related
problems that all the 1772s have by now in the power supply area, since
we're making comparisons :^)
>
> The battery has also been leaking and I need to replace it but I
> cannot find any reference to it in the Manual.Can anyone on here give
> me the type number?
>
Two types of battery used over the life of the 1792 but the early ones
often will have had a little daughter board fitted to take the later
type which was available at least a few years ago from RS in the UK. A
quick search through their site shows a modern equivalent maybe as:

422-371, but compare it with the one you have for size and fit. It's an NiMH version which should never leak. You really should do that asap. Clean the A6A2 board with a little vinegar and then wash very thoroughly with propanol before it dies.
>
> The receiver now works and appears sensitive comparing well with my
> RA1772’s, I do get the impression it’s noisier.However, especially on
> switch on the tuning appears erratic which seems to improve after the
> receiver has been running for a while.
>
Erratic tuning could be something to do with the leaking battery.

"Sensitivity" may seem lower if the RF amp is linked out. There are links inside the RF amp box to disable or enable the preamp. Details in all the manuals...

73 - Dan

2678. Re: Ailing RA1792...

Yahoo group: Racal6790GM
Date: 2016-06-12 20:46:57 UTC
From: john@...
Topic: 2663 Message: 2678

Hi Dan,

Thanks for the quick reply.

"...Not always easy to fault find from eight time zones distance but we try :^)..." You seem to be doing pretty well hi!

My apologies for not giving any information to help identify this receiver.
The plate at the rear gives the following:-

Drg. No Serial No.
ST 80730 9903
The options plate shows:-
GB S2 S D 1 A

When I saw these high unregulated voltages I panicked and thought the radio was a 110 volt version but I knew I HAD checked before plugging in! I did wonder if there was a 250 volts setting. Thanks for the information about the battery. I will remove the A6A2 board in the next couple of days and remove the existing battery which reads .05 volts so it obviously needs replacing. It's mounted on a small daughter board which has actually protected the main pcb as the daughter board itself is badly marked due to the battery leaking.

The RF amplifier is linked in, the box is marked to the effect that "a 6dB attenuator is wired into the I/P within this unit" I did look inside briefly but couldn't see anything obvious...

Thanks again Dan for your help - and patience!

Rgrds,

John
gw3vvc

2679. Racal RA3700 series manual

Yahoo group: Racal6790GM
Date: 2016-06-17 08:47:36 UTC
From: vk5abc@...
Topic: 2679 Message: 2679

Hello All

Does anyone here know of a soft copy manual for the RA3700 series and What is the difference between the RA3701 and RA3710. Anyone with any spares for these radios.

73's Lee.

2680. R: [Racal6790GM] Racal RA3700 series manual

Yahoo group: Racal6790GM
Date: 2016-06-18 21:58:10 UTC
From: federico_baldi@alice.it
Topic: 2680 Message: 2680

Hi, I don't know RA3710 but I can say that RA3712 is a dual receiver that matches with RA3751 Dual Drive Unit and TA3762 Power Amplifier. I have the complete system with manuals for sell if someone is interested. The manuals are too big to make a copy work. 73 de Federico IZ1FID

----Messaggio originale----

Da: Racal6790GM@yahoogroups.com

Data: 17-giu-2016 10.47

A: <Racal6790GM@yahoogroups.com>

Ogg: [Racal6790GM] Racal RA3700 series manual

----Messaggio originale----

Da: Racal6790GM@yahoogroups.com

Data: 17-giu-2016 10.47

A: <Racal6790GM@yahoogroups.com>

Ogg: [Racal6790GM] Racal RA3700 series manual

Hello All

Does anyone here know of a soft copy manual for the RA3700 series and What is the difference between the RA3701 and RA3710. Anyone with any spares for these radios.

73's Lee.

-->

2681. R: [Racal6790GM] Racal RA3700 series manual

Yahoo group: Racal6790GM
Date: 2016-06-18 22:02:27 UTC
From: federico_baldi@alice.it
Topic: 2680 Message: 2681

MA3751 not RA3751 Dual drive Unit. 73 de Federico IZ1FID

----Messaggio originale----

Da: Racal6790GM@yahoogroups.com

Data: 17-giu-2016 10.47

A: <Racal6790GM@yahoogroups.com>

Ogg: [Racal6790GM] Racal RA3700 series manual

----Messaggio originale----

Da: Racal6790GM@...m

Data: 17-giu-2016 10.47

A: <Racal6790GM@yahoogroups.com>

Ogg: [Racal6790GM] Racal RA3700 series manual

Hello All

Does anyone here know of a soft copy manual for the RA3700 series and What is the difference between the RA3701 and RA3710. Anyone with any spares for these radios.

73's Lee.

-->

2682. R: [Racal6790GM] Racal RA3700 series manual

Yahoo group: Racal6790GM
Date: 2016-06-18 22:03:45 UTC
From: federico_baldi@alice.it
Topic: 2680 Message: 2682

see
http://www.wb.commufa.jp/ja2djh/html/e_ra3701.html

----Messaggio originale----

Da: Racal6790GM@yahoogroups.com

Data: 17-giu-2016 10.47

A: <Racal6790GM@yahoogroups.com>

Ogg: [Racal6790GM] Racal RA3700 series manual

----Messaggio originale----

Da: Racal6790GM@yahoogroups.com

Data: 17-giu-2016 10.47

A: <Racal6790GM@yahoogroups.com>

Ogg: [Racal6790GM] Racal RA3700 series manual

Hello All

Does anyone here know of a soft copy manual for the RA3700 series and What is the difference between the RA3701 and RA3710. Anyone with any spares for these radios.

73's Lee.

-->

2683. My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-05 08:16:47 UTC
From: reece_k1@...
Topic: 2683 Message: 2683

My 6790 has just died after it was sitting idle for 3 months, before this it worked fine.
The fault is similar to this recent post:
https://groups.yahoo.com/neo/groups/Racal6790GM/conversations/topics/2642
https://groups.yahoo.com/neo/groups/Racal6790GM/conversations/topics/2642
I turned it on and the red fault led came on, frequency displayed all zero's and the mode display had all the lcd's active. I turned the set off waited a few minutes and turned on again and again the frequency displayed all zero's, but the fault led was out and the mode displays in the top right corner "0.0".
I have been going through the boards looking for any faulty tantalum caps and found a 15uF 20v (C38) on the A2 board with a dead short, I have taken it out and it is definitely shorted.
Typical I don't have a spare anywhere near it, I'd have to order online, since it is only on the power rail could I replace it with an electrolytic? I have heaps of good quality new ones. (not new old stock, maybe 150uF would do??)
Many thanks for any advice.
Reece.

2684. Re: [Racal6790GM] My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-05 08:34:37 UTC
From: casy_ch@tbwil.ch
Topic: 2683 Message: 2684

Hi Reece

Beside the tantalum problem, have you looked that the supporting battery
is still good? When I used to leave the rig unused for a long time I had
to leave it switched on for about 2 days so it it recharged itself.

By the way if you would replace the battery be very carefull when
unsoldering it pins, the tracks and solder rings do not hold on the
board when heated up. It is a bit tedious with this problem.

Jean-Claude

Am 05.07.2016 um 10:16 schrieb reece_k1@... [Racal6790GM]:
>
> My 6790 has just died after it was sitting idle for 3 months, before
> this it worked fine.
> The fault is similar to this recent post:
> https://groups.yahoo.com/neo/groups/Racal6790GM/conversations/topics/2642
>
> I turned it on and the red fault led came on, frequency displayed all
> zero's and the mode display had all the lcd's active. I turned the set
> off waited a few minutes and turned on again and again the frequency
> displayed all zero's, but the fault led was out and the mode displays
> in the top right corner "0.0".
> I have been going through the boards looking for any faulty tantalum
> caps and found a 15uF 20v (C38) on the A2 board with a dead short, I
> have taken it out and it is definitely shorted.
> Typical I don't have a spare anywhere near it, I'd have to order
> online, since it is only on the power rail could I replace it with an
> electrolytic? I have heaps of good quality new ones. (not new old
> stock, maybe 150uF would do??)
>
> Many thanks for any advice.
>
> Reece.
>
>

2685. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-05 08:58:25 UTC
From: reece_k1@...
Topic: 2683 Message: 2685

Thanks for the heads up, I had actually replaced this less than a year ago and had to fix the track, the old one had leaked acid and eaten a track. I checked it and it is just under 5v so no probs there.
One thing I am a bit concerned about is if the -15v supply is still ok after a dead short on the line, won't know till I get the part replaced and power it up.
Reece.

2686. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-05 11:47:54 UTC
From: reece_k1@...
Topic: 2683 Message: 2686

Well I replaced the capacitor with a 100uF 50v electrolytic for a test. Upon switching on the frequency (including bfo offset) display was erratic changing numbers in some random fashion, after 30 seconds or so the display shows only "A" and the fault light is now on. I would do a bite test but it does not respond.
I don't know if this is an improvement or not!!!!

2687. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-05 13:08:49 UTC
From: ken@...
Topic: 2683 Message: 2687

Mine has done that, twice. Died while unplugged and sitting idle. Sent it off for repair and it died a again a little while later. This 6790s is just about the highest-maintenance radio I've ever owned. After that last failure, I gave up. Mine has been sitting in a closet ever since.

2688. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-05 13:12:55 UTC
From: reece_k1@...
Topic: 2683 Message: 2688

I followed Gary's procedure:

Start with the basic Microprocessor, Front Panel and Power Supply check. Make sure that the power is turned off. Unplug the following connectors:

W21 First Mixer A2
W22 Second Mixer A3
W13 First LO Synthesizer A7
W14 Second LO/BFO Synthesizer A8
W15 Main IF/AF A4
Remove the A6A1 Remote Interface Card if installed.

This only leaves the Power Supply A10, the Front Panel A9 and the Microprocessor A6A2 Card.

Turn the power on and monitor the Front Panel Assembly, make sure the Remote is not on the Front Panel Mode LCD and press each of the membrane switches to ensure their function. If the Front Panel is operating correctly then you can start plugging in each of the cables disconnected one by one and turn the power back on after each connection is made and then retest the Front Panel again each time. If the receiver Front Panel stops working after you have plug in one of the boards and turned on the power then that board will have a power supply cap problem on that board. The bad caps are easy to locate because they will produce a large amount of heat and may have a small hole in the cap, if you inspect each cap with an eye loupe you may see a small pin hole in the device. They will also measure very low resistance to ground.

This worked well, the only thing that wouldn't respond was the filter selection, I started plugging all boards back in one at a time and when I had them all back inall worked except the filters wouldn't respond in CW mode and I kept getting a "P" in the frequency first position and also in the BFO offset. I have redone a bite test and all passes (no fault) and functions ok so I am baffled as to what happened.

2689. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-05 13:18:51 UTC
From: reece_k1@...
Topic: 2683 Message: 2689

Hi dfwken3935, you must have posted while I was posting!!! I wouldn't give up, yours sounds like the battery isn't holding the info, have you checked that?
I love this radio, the only thing it lacks is memories but selectivity and sensitivity is great, I have modded mine replaced the headphone socket for a stereo type, a big improvement.
Don't give up on the old girl!!

2690. Re: [Racal6790GM] Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-05 17:19:31 UTC
From: gewingerd@netzero.net
Topic: 2683 Message: 2690
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2691. 1792 direct frequency input not working

Yahoo group: Racal6790GM
Date: 2016-07-05 15:09:20 UTC
From: Sean Williams
Topic: 2691 Message: 2691

Hi all,

Nearly finished repairing my 1792 that "just needed displays" yeah right!

The only remaining problem is with direct frequency input, when i press the freq key nothing happens.

Any common faults to look at first?

Thanks
Sean
M1ECY

Sent from my time machine tomorrow

2692. Re: [Racal6790GM] 1792 direct frequency input not working

Yahoo group: Racal6790GM
Date: 2016-07-05 23:00:01 UTC
From: Dan Rae
Topic: 2691 Message: 2692

On 7/5/2016 8:09 AM, Sean Williams sean@... [Racal6790GM]
wrote:
> Hi all,
>
>
> Nearly finished repairing my 1792 that "just needed displays" yeah right!
>
>
> The only remaining problem is with direct frequency input, when i press the freq key
nothing happens.
>
>
Sean, the switches each contain a little reed switch. These have been
known to fail. First place to look.

73 - Dan

ac6ao / g3ncr

2693. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-06 00:11:27 UTC
From: reece_k1@...
Topic: 2683 Message: 2693

Hi Gary, that explains a but of what was going on, the -15v rail checks out ok my old analog meter shows it as 14v. This part must have been dying since I got this radio, I always had to wait around 45 seconds for the set to warm up before it worked now it works as soon as the set is powered up!!
BITE passes perfectly, CW mode and offset is all ok.
Is it ok to keep the 100uF electrolytic in or should I replace it with the proper part?
Thanks.

2694. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-06 03:04:04 UTC
From: reece_k1@...
Topic: 2683 Message: 2694

Prior to this I had removed the interface card and just put it back in, when I switched it back on it went straight to a BITE test and on completion had an error, nothing in the frequency window except a ".", turning off and on just showed the same and will not do another test pressing AM and Lock. I removed the plugs again (W21 etc) and went through the procedure and all works 100%.
Seems odd to have to do it this way, is there an easier way to set it up again?
Thanks.

2695. Re: [Racal6790GM] Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-06 09:42:24 UTC
From: gewingerd@netzero.net
Topic: 2683 Message: 2695
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2696. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-07 00:12:18 UTC
From: reece_k1@...
Topic: 2683 Message: 2696

Replacing all the caps would be quite costly especially 35v, should this be to power supply caps of each board or every tant cap?

2697. Re: [Racal6790GM] Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-07 00:41:39 UTC
From: FRANCIS CARCIA
Topic: 2683 Message: 2697

Cubic used the same style caps and once they start failing it is best to try to replace all of them with higher voltage parts. Most places the value isn't critical but higher voltage rating caps are a good thing. Sometimes they become resistors and die slow and sometimes they crowbar the rail. this can be hard on the power supply. Frank WA1GFZ

On Wednesday, July 6, 2016 8:12 PM, "reece_k1@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

> Replacing all the caps would be quite costly especially 35v, should this be to power supply caps of each board or every tant cap?

2698. Re: [Racal6790GM] Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-07 06:54:35 UTC
From: gewingerd@netzero.net
Topic: 2683 Message: 2698
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2699. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-07 08:14:46 UTC
From: reece_k1@...
Topic: 2683 Message: 2699

Thanks for the help/advice, I will check for parts online and order some, seems most are Chinese, I'd prefer Japanese parts but seems they are like hens teeth.

Reece.

2700. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-07 19:54:43 UTC
From: Richard
Topic: 2683 Message: 2700

Gee, I see you can get 100 6.8mf at 35Volt on ebay for about $3 from china which have done many times. Takes about 2 weeks to get! Other values are available at about the same price.

http://www.ebay.com/itm/100PCS-Brand-New-35V-6-8uF-35Volt-6-8MFD-Electrolytic-Capacitor-5-11-Radial-/391248897299

2701. Re: [Racal6790GM] Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-07 23:35:56 UTC
From: gewingerd@netzero.net
Topic: 2683 Message: 2701
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2702. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-08 00:47:45 UTC
From: reece_k1@...
Topic: 2683 Message: 2702

Thanks, that saves a lot of time searching.

2703. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-28 07:07:19 UTC
From: reece_k1@...
Topic: 2683 Message: 2703

Well it took some time for the parts to arrive but have got the job done now.
I should have checked the radio before ordering however because most of the parts have either been replaced before or the boards were produced with 35v components.
These are the only parts used:
Processor Board - 1 x 15uF 35v
Communications Board - Nil
IF Board (A4) - 8 x 15uF 35v
A8 & A7 Boards - Nil
A2 Board 2 x 15uF 35v
A3 Board 3 x 15uF 35v
Plenty of spare parts anyway!!
I assume I'm not supposed to be replacing existing 35v components?

2704. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-28 07:43:55 UTC
From: reece_k1@...
Topic: 2683 Message: 2704

Well I just tested it and now has a fault showing 81800088 after removing all plugs as in Gary's test when I plug A3 frequency dial stops responding, plugging in W14and pressing CW toggles the fault light.
Plug them all in and no fault light but displays H19028PP.
I should have left well enough alone I think!!

2705. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-28 13:56:47 UTC
From: reece_k1@...
Topic: 2683 Message: 2705

This thing is acting so weird, on turn on it runs a test without a fault but the settings are a mess, usually ends in remote mode with lock on, sometimes the frequency has numbers sometimes a mix of numbers and letters and/or dashes. In CW mode the BFO offset is usually zero and pressing "BFO Center" turns the fault led on, adjusting BFO with dial gets rid of it. Eventually after going through all various modes the machine seems to run perfectly, if I do a Bite Test it passes with no problems but once I turn the radio off and later back on it goes through a test again, usually with a fault. I can clear it all by going through the modes again, do a bite test and it's ok again, until the radio is turned off and later on. Most frustrating.
Please Help.

2706. Re: [Racal6790GM] Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-28 13:58:32 UTC
From: Dan Rae
Topic: 2683 Message: 2706

On 7/28/2016 6:56 AM, reece_k1@... [Racal6790GM] wrote:
>
>
> This thing is acting so weird, on turn on it runs a test without a
> fault but the settings are a mess, usually ends in remote mode with
> lock on, sometimes the frequency has numbers sometimes a mix of
> numbers and letters and/or dashes. In CW mode the BFO offset is
> usually zero and pressing "BFO Center" turns the fault led on,
> adjusting BFO with dial gets rid of it. Eventually after going through
> all various modes the machine seems to run perfectly, if I do a Bite
> Test it passes with no problems but once I turn the radio off and
> later back on it goes through a test again, usually with a fault. I
> can clear it all by going through the modes again, do a bite test and
> it's ok again, until the radio is turned off and later on. Most
> frustrating.
> Please Help.
Flat or no battery?

dr

2707. Re: [Racal6790GM] Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-28 14:25:44 UTC
From: casy_ch@tbwil.ch
Topic: 2683 Message: 2707

Measure the voltage of the backup battery. If you have to change it be
very carefull when unsoldering it, the pcb tracks do not hold well on
the board. Hold the eyelet with a tweezer when doing it or the tracks
come off.

Jean-Claude, HB3YDH

Am 28.07.2016 um 15:58 schrieb Dan Rae danrae@... [Racal6790GM]:
>
> On 7/28/2016 6:56 AM, reece_k1@... [Racal6790GM] wrote:
> >
> >
> > This thing is acting so weird, on turn on it runs a test without a
> > fault but the settings are a mess, usually ends in remote mode with
> > lock on, sometimes the frequency has numbers sometimes a mix of
> > numbers and letters and/or dashes. In CW mode the BFO offset is
> > usually zero and pressing "BFO Center" turns the fault led on,
> > adjusting BFO with dial gets rid of it. Eventually after going through
> > all various modes the machine seems to run perfectly, if I do a Bite
> > Test it passes with no problems but once I turn the radio off and
> > later back on it goes through a test again, usually with a fault. I
> > can clear it all by going through the modes again, do a bite test and
> > it's ok again, until the radio is turned off and later on. Most
> > frustrating.
> > Please Help.
> Flat or no battery?
>
> dr
>
>

2708. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-29 02:16:55 UTC
From: reece_k1@...
Topic: 2683 Message: 2708

Thanks Dan & Jean-Claude, I replaced the Battery about 2 years ago and cleaned the old corrosion off the applied a clear lacquer over the corroded areas so I didn't bother checking. To my surprise the battery negative wire continued to corrode through, must have been hanging on by a hair and when replacing a capacitor disturbed it and found it still in it's correct position but broken.
Did I ever wipe my brow!! BITE test passes and switching on and off has no effect!!!
Needless to say I'm a happy chappie!!
Thanks again. (Now Reece, leave it alone!!!)

2709. Re: My 6790 just died after 3 months idle.

Yahoo group: Racal6790GM
Date: 2016-07-29 09:46:10 UTC
From: reece_k1@...
Topic: 2683 Message: 2709

One good thing that I noticed is that now the S-meter works better, before I could only get1 to 2 bars at the best, I have now got up to 5 bars, whether this is actual strength increase or just meter movement I wouldn't know but I would guess the latter. Again the radio comes up to frequency much faster so I guess some leaky caps have been pulling the lines down.

2710. 6790 Signal Strength

Yahoo group: Racal6790GM
Date: 2016-07-31 05:51:10 UTC
From: reece_k1@...
Topic: 2710 Message: 2710

Although this radio is much better (almost perfect) I am still having problems with the displayed Signal strength. I have a 756Pro and a JRC NRD-535D, the S units shown on either of these radios is similar and much higher than the 6790. For example a signal displaying around 9 on the JRC shows around 2 (1 bar) on the Racal, the maximum ever for a local AM station on this radio being around 5 bars.
Is there an adjustment for this?

2711. Re: [Racal6790GM] 6790 Signal Strength

Yahoo group: Racal6790GM
Date: 2016-07-31 14:35:31 UTC
From: Dan Rae
Topic: 2710 Message: 2711

On 7/30/2016 10:51 PM, reece_k1@... [Racal6790GM] wrote:
>
>
> Although this radio is much better (almost perfect) I am still having
> problems with the displayed Signal strength.
snip
> Is there an adjustment for this?
It used to be called "alignment" and probably still is. If you do the
adjustments to the A4 board and to the AGC lines feeding the front end
it should be possible to get the S meter reading quite accurately. It
starts with setting the 10V DAC reference and goes from there. This
does however require a certain amount of calibrated test gear...

I think the details have been published, otherwise it largely follows
the process set out in the RA1792 manuals.

73 - Dan

ac6ao / g3ncr

2712. Re: [Racal6790GM] 6790 Signal Strength

Yahoo group: Racal6790GM
Date: 2016-07-31 16:17:32 UTC
From: gewingerd@netzero.net
Topic: 2710 Message: 2712
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2713. Re: 6790 Signal Strength

Yahoo group: Racal6790GM
Date: 2016-08-01 01:12:36 UTC
From: reece_k1@...
Topic: 2710 Message: 2713

Good grief, that test equipment (such as a SPECTRUM ANALYZER) is way out of my reach, I guess I'll give up on this idea. I was hoping for something a bit simpler!!
Thanks anyway!

2714. Re: [Racal6790GM] Re: 6790 Signal Strength

Yahoo group: Racal6790GM
Date: 2016-08-01 03:51:18 UTC
From: gewingerd@netzero.net
Topic: 2710 Message: 2714
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2715. Re: 6790 Signal Strength

Yahoo group: Racal6790GM
Date: 2016-08-01 12:48:21 UTC
From: reece_k1@...
Topic: 2710 Message: 2715

OK, I wasn't sure what to set the AGC to regarding MAN, I just set the AGC to SLOW with MAN off.
TP9 had 9.54v, I adjusted this to 10.00v and this brought the S reading max up by 1 bar to 5 peaking every now and then to 6 bars between S6 & 7. Better for sure.
It's a shame, CRO's (China) are cheap enough but a spectrum analyzer is just far too expensive.

2716. Re: [Racal6790GM] Re: 6790 Signal Strength

Yahoo group: Racal6790GM
Date: 2016-08-01 13:28:12 UTC
From: Dan Rae
Topic: 2710 Message: 2716

On 8/1/2016 5:48 AM, reece_k1@... [Racal6790GM] wrote:
>
>
> OK, I wasn't sure what to set the AGC to regarding MAN, I just set the
> AGC to SLOW with MAN off.
> TP9 had 9.54v, I adjusted this to 10.00v and this brought the S
> reading max up by 1 bar to 5 peaking every now and then to 6 bars
> between S6 & 7. Better for sure.
> It's a shame, CRO's (China) are cheap enough but a spectrum analyzer
> is just far too expensive.
The only thing you'll need a Spectrum analyser (and TG) for would be the LP filter at the front end and possibly for the very broad 455 kHz IF filter (L1 L2) on the A4 board (but this can just be peaked at 455 kHz). Neither is likely to need adjustment unless they have failed components. For the AGC you will need only a signal generator with calibrated output, RF and DC voltmeters. It's not that complicated, about half a page in the 1792 manual.

73 - Dan

2717. Re: 6790 Signal Strength

Yahoo group: Racal6790GM
Date: 2016-08-02 02:02:41 UTC
From: reece_k1@...
Topic: 2710 Message: 2717

Hi Dan, could you possibly point to these devices for purchase? I know it is a pain but there are so many devices mot are still in the hundreds of dollars. What about DDS devices that connect to computers, any of these ok? I did a search for signal generator with calibrated output and only found devices way out of my price range, I don't mind spending a few hundred but some of these are close to $1,000. It would be even worse to purchase one that wasn't suitable.
Thanks for any advice.

2718. 6790 a9 board

Yahoo group: Racal6790GM
Date: 2016-08-01 13:17:31 UTC
From: cert4649@...
Topic: 2718 Message: 2718

want to buy a9 board for ra6790

Do you have a9 board?

br
aki

2719. Re: [Racal6790GM] Re: 6790 Signal Strength

Yahoo group: Racal6790GM
Date: 2016-08-02 02:20:38 UTC
From: Dan Rae
Topic: 2710 Message: 2719

On 8/1/2016 7:02 PM, reece_k1@... [Racal6790GM] wrote:
>
>
> Hi Dan, could you possibly point to these devices for purchase? I know
> it is a pain but there are so many devices mot are still in the
> hundreds of dollars. What about DDS devices that connect to computers,
> any of these ok? I did a search for signal generator with calibrated
> output and only found devices way out of my price range, I don't mind
> spending a few hundred but some of these are close to $1,000. It would
> be even worse to purchase one that wasn't suitable.
> Thanks for any advice.
Reece, the problem with one of the DDS gadgets is that they don't have the calibrated level output that you need for this kind of job, where the manual calls for specific signal levels at different stages. Here I would suggest something like an -hp- 8640B which can be found working for $150 (US) but down under I've no idea. Best bet might be to find someone locally who might lend you one. Do you have a local amateur radio club or similar? I get the impression that there's quite a thriving radio community in Oz.

The trouble with test gear is that it can become addictive and a situation where you need more test gear to fix the stuff you have until you end up with a garage full like me...

73 - Dan

2720. Re: 6790 Signal Strength

Yahoo group: Racal6790GM
Date: 2016-08-15 11:22:38 UTC
From: reece_k1@...
Topic: 2710 Message: 2720

I may have to find someone to send the A4 board off to, I live in the country and there is no one around and certainly no one with the required equipment.
just for a test I painted a mark across R-39 and adjusted it with the radio on a strong AM signal and all I could get is 1 bar so a local station only shows signal strength of 8.
I have my doubts that a tune up of the A4 board will fix this problem, any guesses where else to look?
When Gary mentioned the following:

Try doing the 10 Vdc alignment on the A4 only and see what happens.
SELECT AGC SHORT ON THE RECEIVER AND REMOVE THE INPUT SIGNAL TO A4J1. THE DMM IS STILL CONNECTED TO TP9.
ADJUST R-119 FOR 10.0VDC ON THE DMM.

I assumed that the antenna had to be unplugged because a signal changes the value, does it matter what mode (CW, AM etc) and MAN off.
Thanks. BTW, I put R-39 back to the mark.

2721. Static and Fault light flashing

Yahoo group: Racal6790GM
Date: 2016-09-02 01:36:40 UTC
From: ckeiser10@...
Topic: 2721 Message: 2721

I am a shortwave listener and have been using a 6790 for several years. Recently it has been going through periods of sharp static like noise along with random flashing of the fault light. I am not skilled in electronics and would appreciate any guidance on where to start to look to cure this. The receiver always starts OK but goes through periods of noise as it warms up. The bite test doesn't show any errors.
Thanks for your help.

Chuck

2722. Re: [Racal6790GM] Static and Fault light flashing

Yahoo group: Racal6790GM
Date: 2016-09-02 04:29:05 UTC
From: gewingerd@netzero.net
Topic: 2721 Message: 2722
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2723. Re: [Racal6790GM] Static and Fault light flashing

Yahoo group: Racal6790GM
Date: 2016-09-02 13:57:49 UTC
From: ckeiser10@...
Topic: 2721 Message: 2723

Thanks Gary.

I had this serviced by you several years ago and was very happy. I will check the voltages.

Chuck

2724. Re: [Racal6790GM] Static and Fault light flashing

Yahoo group: Racal6790GM
Date: 2016-09-02 14:06:44 UTC
From: Dan Rae
Topic: 2721 Message: 2724

I've seen that -5.2V adjustment pot go noisy more than once. Turning it back and forth round the setting point several times before the final adjustment may help.

Dan

2725. RA1792 Pre-LSI 1st LO issue resolved

Yahoo group: Racal6790GM
Date: 2016-08-30 15:24:49 UTC
From: Ian@...
Topic: 2725 Message: 2725

Hi group,
Some time ago (can't find my original post) I posted a query relating to RA1792 BITE (test 13) where the 1st LO is a MK3. In the case in question, the RX functioned perfectly as a radio but consistently got hung up on BITE test 13. I put the radio aside and concentrated on other projects ... coming back to it this morning.
I can now confirm that I have identified the cause of the hang-up; which appears to be a modification ... or at least a deviation from the schematic in the service manual!
The outcome of Test 13 is dependent on the state of the output of comparator U34a (1/4 LM339). If the links are set correctly pin 6 of U34 is connected to the output of the DA on the A4 board, via the front panel memory board. Pin 7 is connected to TP9 on the LO board via R62 (10K). However pin 7 is also taken to 0V via R63 which according to the schematic is 22K. On the board in question, R63 turned out to be 1K!! This literally divides the voltage at TP9 by a factor of 11. No wonder the test failed!
I have replaced the 1K with a 22K and the receiver now sails through the entire BITE sequence.
The question is why was R63 1K instead of 22K? I looked through my stock of MK3 1st LOs. The first two had 1Ks fitted. Then I found one where a 22K was fitted but his turned out to be a faulty board.
I suspect the deviation from the schematic may be in relation to non-BITE firmware ... maybe something to do with Fast -Lock mode?

Cheers,
Ian, GM0UHC
Home http://www.chavfreezone.me.uk

http://www.chavfreezone.me.uk

Home http://www.chavfreezone.me.uk No, this isn’t a front for some obscure group of fashion freaks. In fact the name ‘chav- free- zone’ was my wife’s idea, not mine.

View on www.chavfreezone.m... http://www.chavfreezone.me.uk
Preview by Yahoo

2726. Re: [Racal6790GM] RA1792 Pre-LSI 1st LO issue resolved

Yahoo group: Racal6790GM
Date: 2016-09-07 11:15:11 UTC
From: engineroom+steve
Topic: 2725 Message: 2726

Hi Ian,I think i have the same issue i was repairing another receiver with multiple issues and did some board swapping i replaced the front panel and top board from another receiver with bite with a non bite receiver both now give fault but work ok.But if i put the original boards back they are ok.I felt heat coming from some of the blue tants on the lo board as well i definately think your on to omething there i'm still scratching my head a little with this one as the non bite one has an issue with the tuning if you try to tune to a frequency the numbers jump around on the display by a few hundred kiloherts but it is tuning.I think i'll go through the whole receiver hopefully the earoms are ok might change all the blue tantalums though.

Steve

On 30/08/2016 16:24, Ian@... [Racal6790GM] wrote:
>
> Hi group,
>
> Some time ago (can't find my original post) I posted a query relating
> to RA1792 BITE (test 13) where the 1st LO is a MK3. In the case in
> question, the RX functioned perfectly as a radio but consistently got
> hung up on BITE test 13. I put the radio aside and concentrated on
> other projects ... coming back to it this morning.
>
> I can now confirm that I have identified the cause of the hang-up;
> which appears to be a modification ... or at least a deviation from
> the schematic in the service manual!
>
> The outcome of Test 13 is dependent on the state of the output of
> comparator U34a (1/4 LM339). If the links are set correctly pin 6 of
> U34 is connected to the output of the DA on the A4 board, via the
> front panel memory board. Pin 7 is connected to TP9 on the LO board
> via R62 (10K). However pin 7 is also taken to 0V via R63 which
> according to the schematic is 22K. On the board in question, R63
> turned out to be 1K!! This literally divides the voltage at TP9 by a
> factor of 11. No wonder the test failed!
>
> I have replaced the 1K with a 22K and the receiver now sails through
> the entire BITE sequence.
>
> The question is why was R63 1K instead of 22K? I looked through my
> stock of MK3 1st LOs. The first two had 1Ks fitted. Then I found one
> where a 22K was fitted but his turned out to be a faulty board.
>
> I suspect the deviation from the schematic may be in relation to

> non-BITE firmware ... maybe something to do with Fast -Lock mode?
>
>
> Cheers,
>
> Ian, GM0UHC
>
> Home <http://www.chavfreezone.me.uk>
>
>
>
>
> image <http://www.chavfreezone.me.uk>
>
>
> Home <http://www.chavfreezone.me.uk>
> No, this isn’t a front for some obscure group of fashion freaks. In
> fact the name ‘chav- free- zone’ was my wife’s idea, not mine.
>
> View on www.chavfreezone.m... <http://www.chavfreezone.me.uk>
>
> Preview by Yahoo
>
>
>
>

2727. 6790 GM

Yahoo group: Racal6790GM
Date: 2016-09-09 00:09:22 UTC
From: frankzavada@...
Topic: 2727 Message: 2727

I am considering adding this fine receiver to my boat anchor AM station, running a BC 610 transmitter at 450 watts out 1400 watts peak power. My question is, any suggestions on how to mute a 6790 so I do not blow out the front end. Just shorting the receiver antenna terminal to ground with an antenna relay, I do not think will do it. I am looking for suggestions. Thank you Frank KD7HVL

2728. Re: [Racal6790GM] 6790 GM

Yahoo group: Racal6790GM
Date: 2016-09-09 00:54:14 UTC
From: FRANCIS CARCIA
Topic: 2727 Message: 2728

A typical TR relay will not provide enough isolation at that power. Dual relays with a smaller one in the RX line could be used to ground the antenna input during TX. I run 16 SD2932s 160 through 6m and use dual relays. Frank WA1GFZ

On Thursday, September 8, 2016 8:17 PM, "frankzavada@yahoo.com [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

I am considering adding this fine receiver to my boat anchor AM station, running a BC 610 transmitter at 450 watts out 1400 watts peak power. My question is, any suggestions on how to mute a 6790 so I do not blow out the front end. Just shorting the receiver antenna terminal to ground with an antenna relay, I do not think will do it. I am looking for suggestions. Thank you Frank KD7HVL

2729. Re: 6790 GM Front End Protection

Yahoo group: Racal6790GM
Date: 2016-09-09 11:18:12 UTC
From: John P. Caldwell
Topic: 2729 Message: 2729

Frank, I'd consider a front end protector like the DX Engineering DXE-RG-5000 Receiver guard RF limiter. I have these on both of my 6790GM's and they work well.

Of course if we're going for period accuracy, I'd be pairing the BC-610 w/ a SX-28....

73'

John WD8INC

2730. Re: [Racal6790GM] 6790 GM

Yahoo group: Racal6790GM
Date: 2016-09-09 16:39:03 UTC
From: casy_ch@tbwil.ch
Topic: 2727 Message: 2730

Frank

Isn't the cat. number you give an expensive electronic switch?

When you talk about <dual relays> what do you mean, contact in series?

Jean-Claude, HB3YDH

Am 09.09.2016 um 02:54 schrieb FRANCIS CARCIA carcia@...
[Racal6790GM]:
> A typical TR relay will not provide enough isolation at that power.
> Dual relays with a smaller one in the RX line could be used to ground
> the antenna input during TX. I run 16 SD2932s 160 through 6m and use
> dual relays. Frank WA1GFZ
>
>
> On Thursday, September 8, 2016 8:17 PM, "frankzavada@...
> [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:
>
>
> I am considering adding this fine receiver to my boat anchor AM
> station, running a BC 610 transmitter at 450 watts out 1400 watts peak
> power. My question is, any suggestions on how to mute a 6790 so I do
> not blow out the front end. Just shorting the receiver antenna
> terminal to ground with an antenna relay, I do not think will do it.
> I am looking for suggestions. Thank you Frank KD7HVL
>
>
>

2731. USB/LSB Filters

Yahoo group: Racal6790GM
Date: 2016-09-11 21:17:24 UTC
From: gewingerd@netzero.net
Topic: 2731 Message: 2731

I am looking for a set of the USB/LSB filters for the RA6790/GM receiver, does anybody have a set they will sell or know where to get some.

Gary E. Wingerd
RACAL Retired

2732. Need LSB/USB filters for 6790

Yahoo group: Racal6790GM
Date: 2016-09-17 15:36:09 UTC
From: Ed
Topic: 2732 Message: 2732

Gary had posted a want for these, on my behalf. I have the ISB board but still need these filters to complete this upgrade. Pls point me in the right direction in order to obtain the filters. Thanks.

Ed NI6S

2733. Re: [Racal6790GM] Need LSB/USB filters for 6790

Yahoo group: Racal6790GM
Date: 2016-09-17 17:53:28 UTC
From: Dan Rae
Topic: 2732 Message: 2733

On 9/17/2016 8:36 AM, Ed navydude1962@... [Racal6790GM] wrote:
>
>
> Gary had posted a want for these, on my behalf. I have the ISB board
> but still need these filters to complete this upgrade. Pls point me
> in the right direction in order to obtain the filters. Thanks.
>
> Ed NI6S
>
Ed the original plug in crystal filters are pretty rare, but it is quite easy to find a pair of the Collins mechanical filters that would serve if you don't mind hard wiring them in. I found a pair of Collins 1.8 kHz wide USB / LSB filters off eBay a few years back and neither were more than $20.

73 - Dan

ac6ao

2734. Re: [Racal6790GM] Need LSB/USB filters for 6790

Yahoo group: Racal6790GM
Date: 2016-09-17 18:02:59 UTC
From: Ed
Topic: 2732 Message: 2734

Thanks, Dan. What is the appropriate IF I should be looking for?

> On Sep 17, 2016, at 10:53, Dan Rae danrae@... [Racal6790GM]
<Racal6790GM@yahoogroups.com> wrote:
>
> On 9/17/2016 8:36 AM, Ed navydude1962@... [Racal6790GM] wrote:
> >
> >
> > Gary had posted a want for these, on my behalf. I have the ISB board
> > but still need these filters to complete this upgrade. Pls point me
> > in the right direction in order to obtain the filters. Thanks.
> >
> > Ed NI6S
> >
> Ed the original plug in crystal filters are pretty rare, but it is quite
> easy to find a pair of the Collins mechanical filters that would serve
> if you don't mind hard wiring them in. I found a pair of Collins 1.8
> kHz wide USB / LSB filters off eBay a few years back and neither were
> more than $20.
>
> 73 - Dan
>
> ac6ao

>

2735. wanted old front panel memory board for RA1792

Yahoo group: Racal6790GM
Date: 2016-09-25 22:38:12 UTC
From: steve@...-online.co.uk
Topic: 2735 Message: 2735

Hope someone here can help me i'm after an old working front panel memory board with the links.Had a blown board and had the newer type without the links but this produces a fault indication.Either that or does anyone know how to get the newer type of memory board to work on the early receiver.
Thanks
Steve

2736. Re: [Racal6790GM] Need LSB/USB filters for 6790

Yahoo group: Racal6790GM
Date: 2016-09-26 00:17:52 UTC
From: Dan Rae
Topic: 2732 Message: 2736

On 9/17/2016 11:02 AM, Ed navydude1962@... [Racal6790GM] wrote:
>
>
> Thanks, Dan. What is the appropriate IF I should be looking for?
455 kHz. There are many Collins USB / LSB filters at 455 kHz carrier frequency with different widths.

73 - Dan

2737. Need some help troubleshooting - Display all zeros - power supply?

Yahoo group: Racal6790GM
Date: 2016-10-02 01:31:13 UTC
From: n8kom@...
Topic: 2737 Message: 2737

Hi -
I have followed the troubleshooting steps listed in some of the (multiple) other posts for this issue of all zeros on the display - radio is stuck will not run BITE test.
I have a question regarding the measurement of the power supply voltages and resistances shown in the troubleshooting steps / instructions. Are these measurements taken with just the 3 things connected - the power supply, the display board and the A6A2 board? What about the resistances shown in the troubleshooting guide?
Here are the voltages I measure:
E7 = 20.4v
E6 = 5.47v
E2 = 24.25v
E5 = 12.88v
E3 = 15.28v
E4 = 0
E1 = -15.1V

But the resistances I measure do not seem to match to the troubleshooting guidance nonminal values -
E7 = 20k
E6 = 40 ohms
E2 = 7.5 M
E5 = 7 M
E3 = 3.9k
E4 = 0
E1 = 5.7k

Any advice to kick start me a little further down the road in figuring this out?

Thanks!
Steve

2738. Re: [Racal6790GM] Need some help troubleshooting - Display all zeros - power supply?

Yahoo group: Racal6790GM
Date: 2016-10-02 21:43:46 UTC
From: gewingerd@netzero.net
Topic: 2737 Message: 2738
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2739. Re: Need some help troubleshooting - Display all zeros - power supply?

Yahoo group: Racal6790GM
Date: 2016-10-03 13:58:52 UTC
From: n8kom@...
Topic: 2737 Message: 2739

Hi Gary - Thanks for the reply on this one - I was referencing your troubleshooting guide / instructions when I made the first post.

I have only the 3 boards mentioned connected. I can see that the voltages look generally correct (no voltages missing, pulled to ground, or far off from nominal values), but several of the resistance to ground measurements I get are far from the nominal.

Are the resistance measurements taken with the power supply connected to the other boards (through A10J3 I think) or are they taken with A10 isolated (not connected to the other 2 boards)?

Any insight on what might cause my resistance values to ground to be so different from the nominal listed in the troubleshooting guide, yet the voltages look to be close?

Also - I think it has been noted in other posts that the unregulated voltages can run high as my measurements show - my +15v unreg is ~ 24v and my 5v unreg is ~ 13v. Is this OK, or does it point to a distinct problem?

The low resistance on the 5 volt line was looking like that might be where some trouble might be, but without seeing an obvious voltage failure or totally missing, I am a little stuck in deciding where to look next.

I will dig in deeper in my spare time over the next few days.

Next step for me if I cannot isolate the issue might be to seek repair service - I would like to get the radio running again.

Regards - Steve

---In Racal6790GM@yahoogroups.com, <gewingerd@...> wrote :

Troubleshooting The RACAL RA6790/GM Receiver

Start with the basic Microprocessor, Front Panel and Power Supply check. Make sure that the power is turned off. Unplug the following connectors:

W21 First Mixer A2
W22 Second Mixer A3
W13 First LO Synthesizer A7
W14 Second LO/BFO Synthesizer A8
W15 Main IF/AF A4
Remove the A6A1 Remote Interface Card if installed.

This only leaves the Power Supply A10, the Front Panel A9 and the Microprocessor A6A2 Card.

Turn the power on and monitor the Front Panel Assembly, make sure the Remote is not on the Front Panel Mode LCD and press each of the membrane switches to ensure their function. If the Front Panel is operating correctly then you can start plugging in each of the cables

disconnected one by one and turn the power back on after each connection is made and then retest the Front Panel again each time. If the receiver Front Panel stops working after you have plug in one of the boards and turned on the power then that board will have a power supply cap problem on that board. The bad caps are easy to locate because they will produce a large amount of heat and may have a small hole in the cap, if you inspect each cap with an eye loupe you may see a small pin hole in the device. They will also measure very low resistance to ground.

A10 Troubleshooting

Power Supply Terminal Normal Voltage Normal Resistance to Ground
E7 Regulated +20 Volt +20 V +/- .5 Volts 11.3 K Ohms
E6 Regulated +5 Volt +5.25 V +/- .5 Volts 196 Ohms
E2 +15 VUR 400 Ohms to 295 K Ohms
E5 +5 VUR 1.3 M Ohms
E3 Regulated +15 Volt +15 V +/- .5 Volts 96 Ohms
E4 GROUND 0 Ohms
E1 Regulated -15 Volt -15 V +/- .5 Volts 1920 Ohms

The ripple measurements for the regulated power supply outputs are less than 10 MV Peak to Peak.

Normal Ripple measurement at E7 4mv Peak to Peak
Normal Ripple measurement at E6 6mv Peak to Peak
Normal Ripple measurement at E3 4mv Peak to Peak
Normal Ripple measurement at E1 3mv Peak to Peak

Gary E. Wingerd
gewingerd@... mailto:gewingerd@...

Please note: message attached

From: "n8kom@... mailto:n8kom@... [Racal6790GM]" <Racal6790GM@yahoogroups.com mailto:Racal6790GM@yahoogroups.com>
To: Racal6790GM@yahoogroups.com mailto:Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] Need some help troubleshooting - Display all zeros - power supply?
Date: 01 Oct 2016 18:31:13 -0700

2740. Re: [Racal6790GM] Re: Need some help troubleshooting - Display all zeros - power supply?

Yahoo group: Racal6790GM
Date: 2016-10-12 18:20:10 UTC
From: gewingerd@netzero.net
Topic: 2740 Message: 2740
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2741. Re: [Racal6790GM] USB/LSB Filters

Yahoo group: Racal6790GM
Date: 2016-10-29 11:42:31 UTC
From: Raymond Boute
Topic: 2731 Message: 2741

Dear Gary,

Sorry for this late reaction. Do you still need any filters?

Regards,

Raymond

==========

At 23:17 2016-09-11, you wrote:
>I am looking for a set of the USB/LSB filters for the RA6790/GM
>receiver, does anybody have a set they will sell or know where to get some.
>
>Gary E. Wingerd
>RACAL Retired
>
>
>------------------------------------
>
>------------------------------------
>
>
>------------------------------------
>
>Yahoo Groups Links
>
>
>

2742. Re: [Racal6790GM] USB/LSB Filters

Yahoo group: Racal6790GM
Date: 2016-10-29 13:18:11 UTC
From: gewingerd@netzero.net
Topic: 2731 Message: 2742
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2743. Re: [Racal6790GM] USB/LSB Filters

Yahoo group: Racal6790GM
Date: 2016-10-29 13:18:33 UTC
From: Ed
Topic: 2731 Message: 2743

Raymond,

Gary put the ad out, on my behalf. Can you kindly respond to me directly? Navydude1962@...

Thanks,
Ed NI6S

> On Oct 29, 2016, at 04:42, Raymond Boute Raymond.Boute@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote:
>
> Dear Gary,
>
> Sorry for this late reaction. Do you still need any filters?
>
> Regards,
>
> Raymond
>
> ==========
>
> At 23:17 2016-09-11, you wrote:
> >I am looking for a set of the USB/LSB filters for the RA6790/GM
> >receiver, does anybody have a set they will sell or know where to get some.
> >
> >Gary E. Wingerd
> >RACAL Retired
> >
> >
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> >Yahoo Groups Links
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2744. RA1792 EPROM and BITE

Yahoo group: Racal6790GM
Date: 2016-10-29 13:00:41 UTC
From: Ian@...
Topic: 2744 Message: 2744

Hi,
I've just finished re-building six RA1792s. I have tried to keep the firmware specific to the hardware. One receiver has firmware version P85417 installed. The receiver appears to function to specification. However when BITE is initiated it fails at step 8 which is the EPROM Checksum test.
The error message is a tad cryptic and the service manual appears to suggest that one of the two EPROMs is duff and should be replaced.
The message that appears in the 'Frequency window' is 08 1 PB-2.
08 is the test number, but does anyone know the significance of the rest?
The irony is that the radio is working fine and when the test is bypassed all the other tests pass.
I have re-programmed the chips three times (different chips too), so it doesn't look like a programming issue ... more likely a corrupt file with an error so insignificant that it doesn't affect the receiver functionality ... as far as I can see.
The checksums that I get on my programmer are as follows ...
P85417-1 ... C8E2
P85417-2 ... 9DDC

Anyone got any ideas?
Thanks in advance,

Ian, GM0UHC
Home http://www.chavfreezone.me.uk

http://www.chavfreezone.me.uk

Home http://www.chavfreezone.me.uk No, this isn’t a front for some obscure group of fashion freaks. In fact the name ‘chav- free- zone’ was my wife’s idea, not mine.

View on www.chavfreezone.m... http://www.chavfreezone.me.uk
Preview by Yahoo

2745. Re: [Racal6790GM] RA1792 EPROM and BITE

Yahoo group: Racal6790GM
Date: 2016-10-30 09:09:09 UTC
From: Raymond Boute
Topic: 2744 Message: 2745

Dear Ian,

At 14:00 2016-10-29, you wrote:
>The message that appears in the 'Frequency window' is 08 1 PB-2.
>08 is the test number, but does anyone know the significance of the rest?

Quoting from the manual:

ROM Sum-Check : 8
BITE check-sums each ROM. If the specified checksum for a ROM does
not agree with the one calculated by this test, the PD number of the
faulty ROM is shown in the frequency display.

Hopefully this helps

If you have time, can you briefly sketch the HW and SW one needs for
(re)programming such ROMs? Are there also disassemblers?

Regards,

Raymond ON4DBV

2746. Re: [Racal6790GM] RA1792 EPROM and BITE

Yahoo group: Racal6790GM
Date: 2016-10-30 15:22:49 UTC
From: Dan Rae
Topic: 2744 Message: 2746

I sent Ian direct the two BIN files for this version of the firmware (which work with no Checksum related BITE errors).

As to programming etc., just about any eprom programmer should work for the 2716 and 2532. There are many programs for reading / editing the files. There was a disassembler for the F8 series microprocessor written by a very clever German amateur a few years back and he did spend a lot of time investigating the GM firmware. But frankly it's now a lost art and I doubt if there's anyone still around who knows how to write it.

Dan

ac6ao / g3ncr

2747. Re: [Racal6790GM] RA1792 EPROM and BITE

Yahoo group: Racal6790GM
Date: 2016-10-30 14:09:17 UTC
From: Ian Ropper
Topic: 2744 Message: 2747
Attachments: 2 described; binary payloads are missing from this source WARC

Hello Raymond,

Programming the TMS2532 if you have a suitable EPROM UV Eraser and EPROM programmer. Unfortunately many programmers DO NOT support the 2532 ... but they will very likely support the 2732.

Therefor it is easy to make up a small adapter (see attached jpeg) to swap over three pins so that the programmer thinks the 2532 is a 2732

You can find a description of the adapter here.

I have attached the C-code for disassembling the F3850 code. I have not tried it yet myself.

73,
Ian, GM0UHC
www.chavfreezone.me.uk

From: mailto:Racal6790GM@yahoogroups.com
Sent: Sunday, October 30, 2016 9:09 AM
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] RA1792 EPROM and BITE

Dear Ian,

At 14:00 2016-10-29, you wrote:
>The message that appears in the 'Frequency window' is 08 1 PB-2.
>08 is the test number, but does anyone know the significance of the rest?

Quoting from the manual:

ROM Sum-Check : 8
BITE check-sums each ROM. If the specified checksum for a ROM does
not agree with the one calculated by this test, the PD number of the
faulty ROM is shown in the frequency display.

Hopefully this helps

If you have time, can you briefly sketch the HW and SW one needs for (re)programming such ROMs? Are there also disassemblers?

Regards,

Raymond ON4DBV

2748. Re: Filters for 6790

Yahoo group: Racal6790GM
Date: 2016-10-31 21:25:45 UTC
From: Ed
Topic: 900 Message: 2748

I am, specifically looking for USB-ISB/LSB-ISB filter pair for the 6790. I already have the ISB board. Thanks.

Ed NI6S

> On Oct 31, 2016, at 14:21, Gordon & Lois Duff <gld90025@...> wrote:
>
> Ray,
>
> I have a board with 6 Collins filters on it. One of them is botched up mechanically but it seems to work fine.
>
> If you are interested, I can research what a reasonable price might be, or you can propose one.
>
> Gordon, KA2NLM
>
> PS: I also have a 6790B and a 6790, should you be interested.

2749. Re: [Racal6790GM] Re: Filters for 6790

Yahoo group: Racal6790GM
Date: 2016-11-02 06:30:08 UTC
From: Raymond Boute
Topic: 900 Message: 2749

Dear Ed,

At 22:25 2016-10-31, you wrote:
>I am, specifically looking for USB-ISB/LSB-ISB
>filter pair for the 6790. I already have the ISB board. Thanks.

That's what I thought. Unfortunately, I don't have any spares for those.

73
Raymond, ON4DBV

>On Oct 31, 2016, at 14:21, Gordon & Lois Duff
><<mailto:gld90025@...>gld90025@...> wrote:
>
>>Ray,
>>
>>I have a board with 6 Collins filters on
>>it. One of them is botched up mechanically but it seems to work fine.
>>
>>If you are interested, I can research what a
>>reasonable price might be, or you can propose one.
>>
>>Gordon, KA2NLM
>>
>>
>>
>>PS: I also have a 6790B and a 6790, should you be interested.
>

2750. Misc displays for sale

Yahoo group: Racal6790GM
Date: 2016-11-22 17:59:14 UTC
From: ka9p@...
Topic: 2750 Message: 2750

In cleaning up the garage I found a box with some 6790 displays.

There are 2 new freq displays with the plastic still on, and one new mode display with the plastic still on.

There are also 2 used mode displays, one has a tag I put on it back in the day that says used good, the other I think was new from a repair depot stash I bought.

One each of the new ones came direct from Gary W., the others I can't say.

As I no longer have any 6790s, you can have the lot for 50 bucks plus shipping. or I'd entertain any interesting trade for 9 mhz cw filters, or boards or dual gate mosfets useful in building a w7zoi receiver.

Thanks, Scott

2751. 6790 displays ....are spoken for, thanks. Scott

Yahoo group: Racal6790GM
Date: 2016-11-22 18:13:09 UTC
From: ka9p@...
Topic: 2751 Message: 2751

[Body unavailable in the source archive]

2752. IF output bandwidth

Yahoo group: Racal6790GM
Date: 2016-11-20 19:22:30 UTC
From: sysconp1@...
Topic: 2752 Message: 2752

I have ordered an RA1792 from Redford Electronics and I was wondering if anyone can help with my query? Basically I was hoping to feed the 455KHz IF Output into my Perseus SDR to create a bandscope for the 1792. Would anyone have tried anything similar and what was the bandwidth available on the output?
Cheers
Andy EI2HWB

2753. Re: [Racal6790GM] IF output bandwidth

Yahoo group: Racal6790GM
Date: 2016-11-30 20:51:16 UTC
From: Dan Rae
Topic: 2752 Message: 2753

On 11/20/2016 11:22 AM, sysconp1@... [Racal6790GM] wrote:
>
>
> I have ordered an RA1792 from Redford Electronics and I was wondering
> if anyone can help with my query? Basically I was hoping to feed the
> 455KHz IF Output into my Perseus SDR to create a bandscope for the
> 1792. Would anyone have tried anything similar and what was the
> bandwidth available on the output?
>
Andy, the bandwidth from the rear panel IF output is that of the
selected IF filter. It was used for signal analysis mainly, and a lot
of the gear used was for 100 kHz, hence the large numbers of ex-GCHQ
radios fitted with the IF converter module. Only you can say if that's
any use to you :^)

73 - Dan

2754. 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-12 05:00:58 UTC
From: reece_k1@...
Topic: 2754 Message: 2754

A while back I reported a signal strength problem with my 6790:

"Although this radio is much better (almost perfect) I am still having problems with the displayed Signal strength. I have a 756Pro and a JRC NRD-535D, the S units shown on either of these radios is similar and much higher than the 6790. For example a signal displaying around 9 on the JRC shows around 2 (1 bar) on the Racal, the maximum ever for a local AM station on this radio is around 5 bars."

I have recently purchased another A4 board and it is identical, I must assume it is not the A4 board, anyone have any ideas where the problem might be? or what I can do?

Is this normal, does anyone else have this problem?

2755. Re: [Racal6790GM] 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-12 12:20:57 UTC
From: John Mendenhall
Topic: 2754 Message: 2755

Get a calibrated sig. gen. And compare. Adjust all rcvr S meters to same value at a specific value and freq. problem ? Most new rx's like 50 ohm input z. 73 john

Sent from my iPad

> On Dec 11, 2016, at 21:00, reece_k1@yahoo.com.au [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote:
>
> A while back I reported a signal strength problem with my 6790:
>
> "Although this radio is much better (almost perfect) I am still having problems with the displayed Signal strength. I have a 756Pro and a JRC NRD-535D, the S units shown on either of these radios is similar and much higher than the 6790. For example a signal displaying around 9 on the JRC shows around 2 (1 bar) on the Racal, the maximum ever for a local AM station on this radio is around 5 bars."
>
>
> I have recently purchased another A4 board and it is identical, I must assume it is not the A4 board, anyone have any ideas where the problem might be? or what I can do?
>
> Is this normal, does anyone else have this problem?
>
>
>
>

2756. Re: [Racal6790GM] 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-12 20:02:40 UTC
From: gewingerd@netzero.net
Topic: 2754 Message: 2756
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2757. Re: [Racal6790GM] 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-12 21:30:19 UTC
From: Dan Rae
Topic: 2754 Message: 2757

On 12/11/2016 9:00 PM, reece_k1@... [Racal6790GM] wrote:
>
>
> A while back I reported a signal strength problem with my 6790:
>
> "Although this radio is much better (almost perfect) I am still having
> problems with the displayed Signal strength. I have a 756Pro and a JRC
> NRD-535D, the S units shown on either of these radios is similar and
> much higher than the 6790. For example a signal displaying around 9 on
> the JRC shows around 2 (1 bar) on the Racal, the maximum ever for a
> local AM station on this radio is around 5 bars."
>
> I have recently purchased another A4 board and it is identical, I must
> assume it is not the A4 board, anyone have any ideas where the problem
> might be? or what I can do?
>
Reece, as you were told last time you brought this up it is most probably a question of alignment, for which you will need access to a certain amount of test gear. But at least setting the DAC for 10.0V should be possible without a signal generator.

The AGC operation also works on the attenuator in the second mixer board and how that is acting will affect your RF meter readings.

It's not an S meter in the usual amateur sense, although what I would consider an "S9" signal will usually light up four or 5 bars on the RF meter. Very roughly a well aligned GM meter will show an increase of 1 bar for every 10 dB increase in the signal pretty much all the way up. I usually have mine set so that it shows 1 bar flickering for 1 µV input, so if you define "S9" as 50 dB over 1 µV then that's five blobs lit. But I don't think there is any universally agreed standard as to what "S9" is anyway.

73 - Dan

ac6ao / g3ncr

2758. Re: 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-12 23:55:51 UTC
From: reece_k1@...
Topic: 2754 Message: 2758

Hi Dan, I did do the adjustment to the AGC as Gary described:
"Select AGC Short and remove link J1, connected the positive of the DMM to TP9, adjusted R-119 setting the DMM to display 10.00v."
Then did a Bite test, no change!! the maximum to a local AM radio station that pulls a 12 on the other 2 radio's only shows 5 bars on the GM.
I find it hard to believe both A4 boards showing the same would be out of alignment, unless they have to be aligned to the suit the receivers input circuits.
If I was to buy the test equipment what essential gear would i need? Surely a signal generator wouldn't be any good on its own?
Thanks.

2759. Re: [Racal6790GM] Re: 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-13 00:29:01 UTC
From: Dan Rae
Topic: 2754 Message: 2759

On 12/12/2016 3:55 PM, reece_k1@... [Racal6790GM] wrote:
>
>
>
> I find it hard to believe both A4 boards showing the same would be out
> of alignment, unless they have to be aligned to the suit the receivers
> input circuits.
The overall alignment does depend on the front end (RF amp fitted or not for example) and as I said, on the A3 second mixer board which has quite a complex AGC controlled amplifier stage at the first IF frequency. That is controlled by an AGC output from the A4 board. The 10 Volt setting of the DAC is only the start, you need to adjust the pots round the IF amp as well which you need the gear for.

As to test gear, after the signal generator (and the DC voltmeter) I think the only essential thing is an RF millivoltmeter, but a check with Gary's instructions will confirm that. There are alternatives, for example a good oscilloscope will substitute for the RF voltmeter, and it may be possible to use an RF probe with your multimeter.

73 - Dan

2760. Re: [Racal6790GM] Re: 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-13 07:07:30 UTC
From: reece_k1@...
Topic: 2754 Message: 2760

Thanks for your patience Dan, I'll work on that info.

2761. Re: 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-13 10:52:55 UTC
From: reece_k1@...
Topic: 2754 Message: 2761

I just noticed that in CW mode (offset is currently 1700hz) with the bandwidth set to 8.7khz the signal oscillates. I never noticed this before since I usually use 3.4khz or less.
Is this normal or yet another problem?

2762. Re: [Racal6790GM] Re: 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-13 14:42:28 UTC
From: Dan Rae
Topic: 2754 Message: 2762

Reece, it's hard to tell when one only has BITE to go on. It might be a problem with the A3 board but I've never seen that myself. How does the GM work with very small signals, like down in the external noise, <1 µV or so? Is it the same as your other radios? If it is then the front end is probably OK.

73 - Dan

and now:
> I just noticed that in CW mode (offset is currently 1700hz) with the
> bandwidth set to 8.7khz the signal oscillates. I never noticed this
> before since I usually use 3.4khz or less.
> Is this normal or yet another problem?
What do you mean by "oscillates"? Does the RF meter reading oscillate? Or is there a spurious signal?

Most people use BFO offsets of less than 1 kHz for CW and the narrower bandwidths. It's not a thing I can reproduce here.

2763. Re: 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-14 01:00:07 UTC
From: reece_k1@...
Topic: 2754 Message: 2763

The radio performs well with weak signals, generally better than the other radio's.
I have the CW offset to -1700, this suits most utility station decoding, that is the problem with USB/LSB only having the one bandwidth.
If I tune slightly off the signal frequency the oscillations increase in frequency/rhythm if you know what I mean.

2764. Re: [Racal6790GM] IF output bandwidth

Yahoo group: Racal6790GM
Date: 2016-12-04 13:37:35 UTC
From: g0nbd@...
Topic: 2752 Message: 2764

Andy,

I ran this a while back, using a soft-rock off the 455 ouput of the 6790 , as dan says , the selected filter b/w is the available b/w . At the time I used Simon Browns SDR software , that worked very well , even to the extent it out-performed the ssb detector in the Rx, with a low rf level , the set stopped , where as the sdr carried on into the noise .

Things get messy when the set agc is working, hence the low level , but also useful, was the 20Khz max b/w , that gave a band scope / click tune function and access to the 12 Khz wide DRM broadcast transmissions , at that time , I could pick up Luxembourg on 1440 Khz in stereo on the MW band

To day one of the rtl $10 usb dongles , wired for direct conversion would work fine

73-Graham
G0NBD

2765. Re: 6790 GM

Yahoo group: Racal6790GM
Date: 2016-12-04 13:54:01 UTC
From: g0nbd@...
Topic: 2727 Message: 2765

Frank ,

I use a Dowkey Ae c/o relay , that has a 1k power contact 'made' and the other is a fine needle point 'broken' contact the relay spec is 80 dB isolation in Rx , I use the external contacts to the key the Tx side , ie , once the relay is over , then the tx is enabled

Still leaks a signal, but not very much, unless you have the rf pre-amp, the 6790 is not protected , could make a copy of the pre-amp protector cct ? agc still pumps up though ..

Its possible to mute the set to a point , using the diversity agc out/in , but there is 'no' hard mute facility , may be a software command , there is a agc dump , should be a mute as well

73-Graham
G0NBD

2766. RE: [Racal6790GM] 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-12 14:20:03 UTC
From: Leigh Sedgwick
Topic: 2754 Message: 2766
Attachments: 2 described; binary payloads are missing from this source WARC

Normal behavior for my RA6790GM late serial number. Doesn’t bother me a bit. This radio has good sensitivity and “hears” most signals to the same relative audio strength as other very good receivers I compare to here. It really is just a relative strength tuning meter.

Mike

K7PI

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Sunday, December 11, 2016 21:01
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790 Signal strength

A while back I reported a signal strength problem with my 6790:

"Although this radio is much better (almost perfect) I am still having problems with the displayed Signal strength. I have a 756Pro and a JRC NRD-535D, the S units shown on either of these radios is similar and much higher than the 6790. For example a signal displaying around 9 on the JRC shows around 2 (1 bar) on the Racal, the maximum ever for a local AM station on this radio is around 5 bars."

I have recently purchased another A4 board and it is identical, I must assume it is not the A4 board, anyone have any ideas where the problem might be? or what I can do?

Is this normal, does anyone else have this problem?

2767. RE: [Racal6790GM] 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-14 16:10:20 UTC
From: Raymond Boute
Topic: 2754 Message: 2767

Dear All,

Different people have different interests and different expectations.
For some, a receiver is meant just to receive signals (so sensitivity
and selectivity are important). For others, the fun is in getting
the receiver up to spec and otherwise experimenting with extensions
and modifications. In the extreme case, the Rx just goes back to the
shelf when that fun is over.
The dB meters on the Racal 6790 and 1792 measure levels w.r.t 1
microvolt into 50 ohm and normally do that fairly well, up to the
coarse resolution. However, by the same token, being off by 2 bars
is being off by a factor 10 for voltages (100 for power). I can
sympathise with people who want to get this right.

73
Raymond

2768. RE: [Racal6790GM] 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-14 18:09:04 UTC
From: Walter Maxwell
Topic: 2754 Message: 2768
Attachments: 3 described; binary payloads are missing from this source WARC

Cannot open pictures. Black screen.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Monday, December 12, 2016 9:20 AM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] 6790 Signal strength

Normal behavior for my RA6790GM late serial number. Doesn’t bother me a bit. This radio has good sensitivity and “hears” most signals to the same relative audio strength as other very good receivers I compare to here. It really is just a relative strength tuning meter.

Mike

K7PI

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Sunday, December 11, 2016 21:01
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790 Signal strength

A while back I reported a signal strength problem with my 6790:

"Although this radio is much better (almost perfect) I am still having problems with the displayed Signal strength. I have a 756Pro and a JRC NRD-535D, the S units shown on either of these radios is similar and much higher than the 6790. For example a signal displaying around 9 on the JRC shows around 2 (1 bar) on the Racal, the maximum ever for a local AM station on this radio is around 5 bars."

I have recently purchased another A4 board and it is identical, I must assume it is not the A4 board, anyone have any ideas where the problem might be? or what I can do?

Is this normal, does anyone else have this problem?

2769. RE: [Racal6790GM] 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2016-12-14 20:07:01 UTC
From: Leigh Sedgwick
Topic: 2754 Message: 2769
Attachments: 2 described; binary payloads are missing from this source WARC

There was no intent to attach the jpg picture files to this email. I do not know how they got attached (possibly pilot error on this end) but they were not intentional so please ignore.

Thanks

Mike

K7PI

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Wednesday, December 14, 2016 10:09
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] 6790 Signal strength

Cannot open pictures. Black screen.

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Monday, December 12, 2016 9:20 AM
To: Racal6790GM@yahoogroups.com
Subject: RE: [Racal6790GM] 6790 Signal strength

Normal behavior for my RA6790GM late serial number. Doesn’t bother me a bit. This radio has good sensitivity and “hears” most signals to the same relative audio strength as other very good receivers I compare to here. It really is just a relative strength tuning meter.

Mike

K7PI

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Sunday, December 11, 2016 21:01
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] 6790 Signal strength

A while back I reported a signal strength problem with my 6790:

"Although this radio is much better (almost perfect) I am still having problems with the displayed Signal strength. I have a 756Pro and a JRC NRD-535D, the S units shown on either of these radios is similar and much higher than the 6790. For example a signal displaying around 9 on the JRC shows around 2 (1 bar) on the Racal, the maximum ever for a local AM station on this radio is around 5 bars."

I have recently purchased another A4 board and it is identical, I must assume it is not the A4 board, anyone have any ideas where the problem might be? or what I can do?

Is this normal, does anyone else have this problem?

2770. DoesItWork

Yahoo group: Racal6790GM
Date: 2017-01-19 00:07:44 UTC
From: David Stinson
Topic: 2754 Message: 2770

TestingTesting

2771. FOR SALE: Good Working RA6790 GM

Yahoo group: Racal6790GM
Date: 2017-01-18 19:05:22 UTC
From: David Stinson
Topic: 2754 Message: 2771

Good working RA6790/GM with five filters.
Passes BITE no problems. No ISB.
Photos and videos at:

https://goo.gl/photos/yuc4DzJMBRUxhZ646
WYSIWYG.

44 lbs. shipping from 75173.
Packed well and fully insured.
Cleared payment via PayPal before shipping.
No check, Money orders or wire etc, please.
Pick-up in North Dallas/NE Texas possible
and preferred if applicable.
Considering reasonable offers before
going to the auction site.
Thanks,
David Stinson AB5S
near Dallas.

2772. Re: 6790 Signal strength

Yahoo group: Racal6790GM
Date: 2017-01-24 09:12:10 UTC
From: reece_k1@...
Topic: 2754 Message: 2772

Posted in the wrong spot Dave.

2775. Re: [Racal6790GM] Re: FOR SALE: Good Working RA6790 GM

Yahoo group: Racal6790GM
Date: 2017-01-24 15:32:28 UTC
From: David Stinson
Topic: 2754 Message: 2775

----- Original Message -----
From: "psalm536529@... [Racal6790GM]"
<Racal6790GM@yahoogroups.com>
Subject: [Racal6790GM] Re: FOR SALE: Good Working RA6790 GM

> Hi David: Not sure if my email got through. Is it available?

Good morning. Yes; it is available.
Have had one non-serious offer.
73 Dave S.

2776. Case for RACAL 6790 GM

Yahoo group: Racal6790GM
Date: 2017-02-05 18:23:36 UTC
From: jgalante2000@...
Topic: 2776 Message: 2776

Does anyone know or have information where I can get a 6790 GM case like the one that is pictured on the profile main picture.

2777. Mil Spec Data Tag

Yahoo group: Racal6790GM
Date: 2016-12-25 06:29:01 UTC
From: <k9bbv@...>
Topic: 2777 Message: 2777
Attachments: 1 described; binary payloads are missing from this source WARC

New to the group. I bought one of Frank Zavada's 6790/GM receivers. (Hi Frank.) Enjoying the process of getting to know operation. I am working on computer control via W6GER's software. This group is a great resource!

On a cosmetic note I have located a laser printing service that can make a data plate for receivers that are missing the original. www.laserrenditions.com Don't know if they can do an exact match for the original but i have attached an example of the one I had done. (Serial # is my call sign).

Merry Christmas.

Steve in Western Wisconsink9bbv

Sent from Yahoo Mail. Get the app

2778. Re: Case for RACAL 6790 GM

Yahoo group: Racal6790GM
Date: 2017-02-08 11:52:31 UTC
From: reece_k1@...
Topic: 2776 Message: 2778

They are a standard 19" rack, I purchased a Schroff COMPTEC casing 10225-623:
http://schroff.pentair.com/en/schroff/10225-623
http://schroff.pentair.com/en/schroff/10225-623
I actually purchased it from Conrad, pricey though at $200 + Freight, but an excellent quality case, the link includes a pdf product file.
Hope this helps.

2779. Re: Case for RACAL 6790 GM

Yahoo group: Racal6790GM
Date: 2017-02-08 12:03:22 UTC
From: reece_k1@...
Topic: 2776 Message: 2779

Some pics:
http://s66.photobucket.com/user/Reecehk/media/DRA6790-5_zps34169368.jpg.html
http://s66.photobucket.com/user/Reecehk/media/DRA6790-5_zps34169368.jpg.html
http://s66.photobucket.com/user/Reecehk/media/DRA6790-3_zpsb8263866.jpg.html
http://s66.photobucket.com/user/Reecehk/media/DRA6790-3_zpsb8263866.jpg.html
http://i66.photobucket.com/albums/h244/Reecehk/DRA6790-6_zpsd9615637.jpg
http://i66.photobucket.com/albums/h244/Reecehk/DRA6790-6_zpsd9615637.jpg

http://i66.photobucket.com/albums/h244/Reecehk/DRA6790-6_zpsd9615637.jpg

http://i66.photobucket.com/albums/h244/Reecehk/DR...
http://i66.photobucket.com/albums/h244/Reecehk/DRA6790-6_zpsd9615637.jpg

View on i66.photobucket.com
http://i66.photobucket.com/albums/h244/Reecehk/DRA6790-6_zpsd9615637.jpg
Preview by Yahoo

2780. Re: Case for RACAL 6790 GM

Yahoo group: Racal6790GM
Date: 2017-02-09 02:47:21 UTC
From: jgalante2000@...
Topic: 2776 Message: 2780

Thanks for the helpful information, that's almost half the price I paid for the 6790 GM in 2014

2781. FS: Racal 6790GM receivers

Yahoo group: Racal6790GM
Date: 2017-02-09 15:32:52 UTC
From: tc987@...
Topic: 2781 Message: 2781

All:

I have two Racal 6790GM receivers available; S/N 3180 and 6168. I also have a hard copy technical manual ("Combined Operation and Maintenance") in a binder; approximately 250 pages. I would like to sell these to down-size.

I know that S/N 6168 previously worked for me and is complete. I am informed that S/N 3180 worked and appears complete. But neither passes self test now. So, I would describe the conditions as "repairable/for parts." Cosmetically, I'd say they are both "fair to good;" not museum pieces. S/N 6168 is missing the knob for the AF gain.

I have no idea whether the repairs to make them operational would be simple or complex. I have neither the time, talent, equipment nor inclination to attempt to fix them. I don't need them for my station. I'd also like to save the hassle of putting together detailed offerings for E-bay, QTH.com or Craigslist.

If someone here would like to contact me off the Group at tc987[at]yahoo.com and make a reasonable suggestion, I'll be happy to review any offers.

73,
Tom

2782. Re: FS: Racal 6790GM receivers

Yahoo group: Racal6790GM
Date: 2017-02-10 21:26:52 UTC
From: chucka@...
Topic: 2781 Message: 2782

Tom,

I might be interested in taking a look at the radios. I am in Wisconsin. Are you located close by?

Thanks,

Chuck

2783. Re: [Racal6790GM] FS: Racal 6790GM receivers

Yahoo group: Racal6790GM
Date: 2017-02-11 00:01:20 UTC
From: mparkinson
Topic: 2781 Message: 2783

Hi Tom
I just missed one on ebay that was not working also.
for 550.00 plus shipping to my location.
I would like to see what it looks like and for how much thanks.
Matt P
W6PKN 73

From: mailto:Racal6790GM@yahoogroups.com
Sent: Thursday, February 09, 2017 7:32 AM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] FS: Racal 6790GM receivers

All:

I have two Racal 6790GM receivers available; S/N 3180 and 6168. I also have a hard copy technical manual ("Combined Operation and Maintenance") in a binder; approximately 250 pages. I would like to sell these to down-size.

I know that S/N 6168 previously worked for me and is complete. I am informed that S/N 3180 worked and appears complete. But neither passes self test now. So, I would describe the conditions as "repairable/for parts." Cosmetically, I'd say they are both "fair to good;" not museum pieces. S/N 6168 is missing the knob for the AF gain.

I have no idea whether the repairs to make them operational would be simple or complex. I have neither the time, talent, equipment nor inclination to attempt to fix them. I don't need them for my station. I'd also like to save the hassle of putting together detailed offerings for E-bay, QTH.com or Craigslist.

If someone here would like to contact me off the Group at tc987[at]yahoo.com and make a reasonable suggestion, I'll be happy to review any offers.

73,
Tom

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2016.0.7998 / Virus Database: 4756/13922 - Release Date: 02/10/17

2784. Re: [Racal6790GM] FS: Racal 6790GM receivers

Yahoo group: Racal6790GM
Date: 2017-02-11 00:22:29 UTC
From: Al
Topic: 2781 Message: 2784

Can you send pictures? What do you think that there worth?
Al

Sent from my iPad

> On Feb 9, 2017, at 7:32 AM, tc987@... [Racal6790GM] <Racal6790GM@yahoogroups.com> wrote:
>
> All:
>
> I have two Racal 6790GM receivers available; S/N 3180 and 6168. I also have a hard copy technical manual ("Combined Operation and Maintenance") in a binder; approximately 250 pages. I would like to sell these to down-size.
>
> I know that S/N 6168 previously worked for me and is complete. I am informed that S/N 3180 worked and appears complete. But neither passes self test now. So, I would describe the conditions as "repairable/for parts." Cosmetically, I'd say they are both "fair to good;" not museum pieces. S/N 6168 is missing the knob for the AF gain.
>
> I have no idea whether the repairs to make them operational would be simple or complex. I have neither the time, talent, equipment nor inclination to attempt to fix them. I don't need them for my station. I'd also like to save the hassle of putting together detailed offerings for E-bay, QTH.com or Craigslist.
>
> If some one here would like to contact me off the Group at tc987[at]yahoo.com and make a reasonable suggestion, I'll be happy to review any offers.
>
> 73,
> Tom
>
>
>
>
>

2785. RA6790/GM ISB with LSB & USB Filters installed

Yahoo group: Racal6790GM
Date: 2017-02-20 23:49:38 UTC
From: gewingerd@netzero.net
Topic: 2785 Message: 2785

I just received a complete RA6790/GM with A5 ISB card and all 7 filters installed.
The unit has great displays, led edge lighting, new battery, new 9666 software installed, new RF input connector, A6A1 card installed, fully aligned, A4 filters LSB USB .4 1.2 3.24 6.8 16 KHz& all covers included.
I have replaced the caps on the A2 card, 1 cap in the power supply, added 10k resistor to A6A2 card, added Campton dots to the A4 card, replaced 1 (1N916) diode & 1 IC (7524) on the A4 card. Unit runs BITE, great audio.
$2200.00 plus shipping.

Gary E Wingerd

2786. FS: Racal rare RA6831 for repair

Yahoo group: Racal6790GM
Date: 2017-02-26 13:49:46 UTC
From: Tom B
Topic: 2786 Message: 2786

Hello All,

I have for sale a non-working Racal RA6831 receiver. This is the touch screen version of the RA6830/JD. This is the only one I have ever seen. I do not have any documentation on it, but many of the parts look the same as the 6830/JD. It does have a full set of filters, 16kHz and 3.24kHz crystal filters, and three of the blue Collins mechanical that I can't identify at the moment.

Physically it is in good condition. Electrically, it has some kind of intermittent that is keeping it from working. When I got it the the shaft encoder was damaged and could not be repaired. There was no part number on the encoder so I made my best guess at a replacement but that did not solve the problem. There may be other problems, but without the basic controls working there is no way to tell.

I do not have a spare power cord, but it uses a common 3 pin MS connector.

The price is $600 plus shipping. Trades considered if you have something interesting.

Tom Bryan
N3AJA

2787. Re: [Racal6790GM] FS: Racal rare RA6831 for repair

Yahoo group: Racal6790GM
Date: 2017-02-26 15:11:27 UTC
From: Raymond Boute
Topic: 2786 Message: 2787

Dear Tom,

I have a 6830 and am willing to look at its shaft
encoder for more details if you want to have a go
at repairing yours. What does the BITE test say?

BTW: what is the functionality of the touch
screen? I am wondering, given the size.

73
Raymond ON4DBV

==========

At 14:49 2017-02-26, you wrote:
>
>
>Hello All,
>
>I have for sale a non-working Racal RA6831 receiver. This is the touch
>screen version of the RA6830/JD. This is the only one I have ever
>seen. I do not have any documentation on it, but many of the parts
>look the same as the 6830/JD. It does have a full set of filters, 16kHz
>and 3.24kHz crystal filters, and three of the blue Collins mechanical
>that I can't identify at the moment.
>
>Physically it is in good condition. Electrically, it has some kind of
>intermittent that is keeping it from working. When I got it the the
>shaft encoder was damaged and could not be repaired. There was no part
>number on the encoder so I made my best guess at a replacement but that
>did not solve the problem. There may be other problems, but without the
>basic controls working there is no way to tell.
>
>I do not have a spare power cord, but it uses a common 3 pin MS connector.
>
>The price is $600 plus shipping. Trades considered if you have
>something interesting.
>
>Tom Bryan
>N3AJA
>
>

2788. Re: [Racal6790GM] FS: Racal rare RA6831 for repair

Yahoo group: Racal6790GM
Date: 2017-02-26 15:15:42 UTC
From: Tom B
Topic: 2786 Message: 2788

Hi Raymond,

I have a 6830 here too. The encoder is completely different. The 6831
has a much more modern type of encoder. The 6830 has one like the 6790.
The touch screen looks like it just replaces the buttons. Since I can't
make it work reliably I have not been able to get BITE results from it.

Tom

On 2/26/2017 10:11 AM, Raymond Boute Raymond.Boute@...
[Racal6790GM] wrote:
>
>
> Dear Tom,
>
> I have a 6830 and am willing to look at its shaft encoder for more
> details if you want to have a go at repairing yours. What does the
> BITE test say?
>
> BTW: what is the functionality of the touch screen? I am wondering,
> given the size.
>
> 73
> Raymond ON4DBV
>
> ==
>
> At 14:49 2017-02-26, you wrote:
>>
>>
>> Hello All,

2789. RACAL 6790 GM Available

Yahoo group: Racal6790GM
Date: 2017-03-07 15:44:11 UTC
From: David Stinson
Topic: 2776 Message: 2789

I have a nice 6790GM available.
Full set of filters. Only thing I see amiss
is one segment of the 10-cycle digit is out.
BITE runs no problems.
Works well on Longwave, too.
Someone added an aux. battery holder.
See the photos.

Many photos and videos of it working at:
https://goo.gl/photos/yuc4DzJMBRUxhZ646

Shipping 43lbs., 27-24-12 from 75173.
Or can deliver at a public place in the Dallas area.
I will fully insure. Signature delivery required.
I accept PayPal only unless picked-up.
No exceptions, sorry.

Seeking reasonable offers.
If no interest today, it goes to Ebay.
Many thanks,
Dave Stinson AB5S

2790. R-390A Filters in an RA6790?

Yahoo group: Racal6790GM
Date: 2017-03-09 22:20:21 UTC
From: Highpwr@...
Topic: 2790 Message: 2790

Have quite a few R-390A IF decks; thinking of trying the 390 filters in a 2nd 6790 that I have that does not have many filters in it.

Anybody ever done this, or have any info or pointers that could help me build adapter boards with correct impedance matching.

Tnx,

Steve
KM4V

2791. Re: [Racal6790GM] R-390A Filters in an RA6790?

Yahoo group: Racal6790GM
Date: 2017-03-10 06:02:26 UTC
From: Raymond Boute
Topic: 2790 Message: 2791

Dear Steve,

Gary may have useful suggestions. Proper
matching is important. There is also a paper on
the web about measuring and matching R-390A
filters; if you don't find it, I may have a .pdf somewhere.

73
Raymond ON4DBV

==========

At 23:20 2017-03-09, you wrote:
>
>
>Have quite a few R-390A IF decks; thinking of
>trying the 390 filters in a 2nd 6790 that I have
>that does not have many filters in it.
>
>Anybody ever done this, or have any info or
>pointers that could help me build adapter boards
>with correct impedance matching.
>
>Tnx,
>
>Steve
>KM4V
>
>
>

2792. Re: [Racal6790GM] R-390A Filters in an RA6790?

Yahoo group: Racal6790GM
Date: 2017-03-10 06:33:30 UTC
From: gewingerd@netzero.net
Topic: 2790 Message: 2792
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2793. Re: [Racal6790GM] R-390A Filters in an RA6790?

Yahoo group: Racal6790GM
Date: 2017-03-10 06:29:20 UTC
From: gewingerd@netzero.net
Topic: 2790 Message: 2793
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2794. RE: [Racal6790GM] R-390A Filters in an RA6790?

Yahoo group: Racal6790GM
Date: 2017-03-10 07:21:31 UTC
From: Ron Ward
Topic: 2790 Message: 2794

Hi:

R-390A filters measure about 75 Ohms when SERIES resonated as measured on a HP 4815 Vector Impedance Meter. I have seen a Collins mechanical filter catalog with a application note showing how resonate AND match their mechanical filters to just about any impedance using two capacitors at each end of the filter.

In the past I have used a FET high impedance common source amplifier to make up for filter losses and to match the impedance, about 100K when PARALLEL resonating capacitors are used. One of the catalogs is available on the Collins collectors association. I hope this helps.

Ron N6IDL

-----Original Message-----
From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Thursday, March 09, 2017 2:20 PM
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] R-390A Filters in an RA6790?

Have quite a few R-390A IF decks; thinking of trying the 390 filters in a 2nd 6790 that I have that does not have many filters in it.

Anybody ever done this, or have any info or pointers that could help me build adapter boards with correct impedance matching.

Tnx,

Steve
KM4V

2795. Re: [Racal6790GM] R-390A Filters in an RA6790?

Yahoo group: Racal6790GM
Date: 2017-03-10 10:41:16 UTC
From: FRANCIS CARCIA
Topic: 2790 Message: 2795

All,I would think R390 filters should work but may have different loss numbers that may cause bite issues. The best thing to do is install one and see what happens. Look at the passband ripple as you tune across a carrier. They may require small caps across the input and output to match the transducers. Many Collins filters like around 30pf. Racal used resistive dividers to feed the filters so the source should be a flat impedance.FrankWA1GFZ

On Friday, March 10, 2017 1:57 AM, "'gewingerd@...' gewingerd@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

----- Forwarded Message -----

  I think the impedance for the RACAL is 200 ohms, I check the filter drawings.

F455 FA-21 MECHANICAL FILTER R-390

Center Frequency .....455 kc nom.

Frequency Response

Bandwidth, 6 db attenuation.....2.1 kc nom.
Bandwidth, 60 db attenuation .....5.3 kc nom.

Passband Response Variation (between 454.3 kc
and 455.7 kc) ..... 3 db max.

Transfer Impedance .....5K ohms +/-2.25K ohms

Resonating Capacity .....130 pf +/-5 pf

Transmission Loss ..... 9.5 db

Spurious Response Attenuation (442 kc to 468 kc) ..... 60 db min.

Please note: message attached

From: "Raymond Boute Raymond.Boute@pandora.be [Racal6790GM]" <Racal6790GM@yahoogroups.com>
To: Racal6790GM@yahoogroups.com
Subject: Re: [Racal6790GM] R-390A Filters in an RA6790?
Date: Fri, 10 Mar 2017 07:02:26 +0100

2796. Re: [Racal6790GM] R-390A Filters in an RA6790?

Yahoo group: Racal6790GM
Date: 2017-03-10 22:06:37 UTC
From: gewingerd@netzero.com
Topic: 2790 Message: 2796
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2797. Re: [Racal6790GM] R-390A Filters in an RA6790?

Yahoo group: Racal6790GM
Date: 2017-03-11 02:07:25 UTC
From: S C Marrow
Topic: 2790 Message: 2797

Raymond, Gary, Ron, And Francis; Thanks very much for the info and guidance, I'll search for the info and look at the filter catalogs (I down loaded some of them years ago) also check back at the Collins collectors and archive sites. I all ready have a couple of them loose that I picked up years ago, so I'll experiment with them before I remove any from the extra IF decks I have.

Raymond if you run across that pdf let me know I'd like to get a copy.

Thanks Again,
Steve
KM4V

2798. Odd filters in a GM

Yahoo group: Racal6790GM
Date: 2017-03-11 17:39:57 UTC
From: Dan Rae
Topic: 2798 Message: 2798
Attachments: 1 described; binary payloads are missing from this source WARC

I tried to post this picture to the photo section yesterday with no luck, maybe it will work as an attachment...

In addition to the GM A4 board in the picture which shows, apart from the 2 crystal filters (usb and LSB) from a 1792 there is also a 300 Hz blue Collins mechanical, a 1kHz mechanical filter from a scrap Cubic board, an original Racal odd plugin crystal marked "3 kHz" but actual much wider, nearer 4.5 kHz, and finally one of the "Low Cost" Collins mechanical range, 5.7 kHz wide. The latter plugs in on an adapter board designed by Todd Roberts.

I have fitted a pair of black Collins mechanical filters in one GM, narrow Upper / Lower sideband filters 1.8 kHz wide, these found on eBay.

Also I have fitted in several GMs and 1792s an 8 kHz Murata Ceramic filter in place of the FL7 link which works well with no special matching for wide AM.

So a variety of oddball filters /can/ be fitted, but I suspect the hardest part about using the R390A filters might be the mechanical aspects. Matching to 4.7k is not that difficult.

Dan

2799. RA6790 Semis and cables for sale

Yahoo group: Racal6790GM
Date: 2017-03-26 19:32:24 UTC
From: ka9p@...
Topic: 2799 Message: 2799

Spring cleaning turned up another box of random 6790 parts.

I found the following semiconductors in sleeves, many still inside the anti-static shipping bags.

25 Cd4054be

5 Cd4054be

15 Cd40109be

20 Mc14503 bop

36 Cd 4056Be

25 Mc14503bcpg

10 Mc14011bcpg

5 Cd4066be

5 Sn74ls08ne4

10 Cd4042bee4

5 Cd4013be

5 Cd4053be

5 UA723cne4

I also found the following cable assemblies:

2 W19

3 W16

3 W15 One has obvious overheated conductor

2 W13

3 W14

I no longer have any 6790's, so if any of this is potentially of use to you, make me an unreasonable offer of $ or parts for what you need. Currently looking for useable 9 mhz filters or crystals for homebrew receivers or inexpensive 435 or two meter converters or preamps for satellite work.

Thanks.

Scott ka9p

2800. Re: [Racal6790GM] R-390A Filters in an RA6790?

Yahoo group: Racal6790GM
Date: 2017-03-11 17:06:12 UTC
From: FRANCIS CARCIA
Topic: 2790 Message: 2800

Steve,You will not hurt the radio if you install them but they might induce bite failures that will clear after the filters are properly interfaced or removed. gfz

On Friday, March 10, 2017 9:08 PM, "'S C Marrow' Highpwr@... [Racal6790GM]" <Racal6790GM@yahoogroups.com> wrote:

Raymond, Gary, Ron, And Francis; Thanks very much for the info and guidance, I'll search for the info and look at the filter catalogs (I down loaded some of them years ago) also check back at the Collins collectors and archive sites. I all ready have a couple of them loose that I picked up years ago, so I'll experiment with them before I remove any from the extra IF decks I have. Raymond if you run across that pdf let me know I'd like to get a copy. Thanks Again,SteveKM4V

2801. W6GER software install in WIN 10

Yahoo group: Racal6790GM
Date: 2017-03-12 23:09:50 UTC
From: HL Serra
Topic: 2801 Message: 2801

Hi-

Anybody been able to install W6GER software for the RA6790 in Windows 10?
I've downloaded it but cannot open the app.

73, Larry N6NC

2802. RE: [Racal6790GM] W6GER software install in WIN 10

Yahoo group: Racal6790GM
Date: 2017-03-30 16:33:16 UTC
From: Leigh Sedgwick
Topic: 2801 Message: 2802
Attachments: 2 described; binary payloads are missing from this source WARC

Larry,

I thought you got the software installed OK? This appeared in my inbox this morning.

Mike

K7PI

From: Racal6790GM@yahoogroups.com [mailto:Racal6790GM@yahoogroups.com]
Sent: Sunday, March 12, 2017 16:10
To: Racal6790GM@yahoogroups.com
Subject: [Racal6790GM] W6GER software install in WIN 10

Hi-

Anybody been able to install W6GER software for the RA6790 in Windows 10? I've downloaded it but cannot open the app.

73, Larry N6NC